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WESTON SOLUTIONS, INC.

**OMEGA CHEMICAL SUPERFUND SITE
WHITTIER, CALIFORNIA**

**SECOND QUARTER 2002
GROUNDWATER MONITORING REPORT**



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GROUNDWATER MONITORING REPORT**

Contract No.: DACA45-98-D-0004
Task Order No.: 0009

February 2003

Prepared for:
U.S. Environmental Protection Agency
Region IX

Prepared by:
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February 11, 2003

Mr. Loren Henning
Superfund Division (SFD 7-4)
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Subject: Second Quarter 2002 Groundwater Monitoring Report
Omega Chemical Superfund Site, Whittier, California.

Dear Mr. Henning:

Weston Solutions, Inc. (WESTON®) is pleased to submit one copy of the subject report. Additional copies will be provided at your request.

Please call me at (818) 382-1803 if you have any questions.

Sincerely,

WESTON SOLUTIONS, INC.

A handwritten signature in cursive script that reads "Carol A. Yuge".

Carol A. Yuge
Principal Project Manager

CC: John Hartley, USACE (1 copy)



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Contract No.: DACA45-98-D-0004
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1.0 INTRODUCTION

This quarterly monitoring report summarizes the results of the quarterly groundwater sampling event performed by Weston Solutions, Inc. (WESTON®) conducted in May 2002 at the Omega Chemical Company National Priorities List (NPL) site located in Whittier, California. The groundwater investigations and monitoring were conducted in support of the remedial investigation (RI) of groundwater at Operable Unit Number 2 (OU-02) of the Omega Chemical NPL Site. The purpose of the monitoring report is to document results of the May 2002 quarterly groundwater sampling event in the OU-02 area. Monitoring wells are located in both the cities of Whittier and Santa Fe Springs.

This document is a deliverable under Work Assignment No. 009 and the U.S. Army Corps of Engineers Rapid Response Contract with WESTON, No. DACA45-98-D-0004, in support on the U.S. Environmental Protection Agency (EPA) for the OU-02 Groundwater Remedial Investigation/Feasibility Study at the Omega Chemical Superfund Site.

Camp, Dresser & McKee (CDM), the consultant for the Omega PRP Organized Group (OPOG) has reduced the sampling of the OPOG wells to a biannual event. WESTON sampled the ten monitoring wells installed by CDM and others within the vicinity of the site, as well as the 18 wells extending downgradient of the Omega site, which were installed by WESTON under contract with EPA. The EPA OU-02 wells are designated as "MW" (e.g. MW01A) and OPOG wells are designated as "OW" (e.g. OW-1A).

1.1 FACILITY BACKGROUND

The Omega Chemical facility is located at 12504 and 12512 East Whittier Boulevard in Whittier, Los Angeles County, California. The city of Santa Fe Springs is located as near as approximately 3,600 feet southwest of the Omega facility. The Omega Chemical Superfund site is divided into two operable units (OUs): OU-01 and OU-02. OU-01 includes the Omega Chemical facility property and extends a short distance west-southwest to Putnam Street. The OU-02 study area encompasses the area surrounding the Omega Chemical facility and extending approximately 1.75 miles to the southwest. A site location map is presented in Figure 1.

The facility operated as a RCRA-permitted solvent and refrigerant recycling and treatment facility, handling primarily chlorinated hydrocarbons and chlorofluorocarbons from approximately 1976 to 1991. Drums and bulk loads of waste solvents and chemicals from various industrial activities were processed to form commercial products. Chemical, thermal, and physical treatment processes are believed to have been used to recycle the waste materials. A summary of the site operational history is provided in the Phase I Groundwater Characterization Report (WESTON, 2002).

1.2 MONITORING WELL LOCATIONS

The Phase I Groundwater Characterization Report (WESTON, 2002) describes the installation parameters and locations for the 18 monitoring wells installed by WESTON under contract with EPA in December 2001. Boring logs showing screened intervals and lithology will be provided in a separate report. Installation, lithology, and construction of the OPOG wells are presented in several documents: *Phase II Close Out Report*, (England and Hargis, 1996, including Technical Memoranda addendums); *Phase 1a Pre-Design Field Investigation Report*, (CDM, 1999); *Proposed Completion Depth of Well OW-5*, (CDM, July 13, 2001); *Sampling and Analysis Plan Addendum for Additional Data Collection in the Phase 1a Area*, (CDM, May 31, 2002). The convention used for the well identifications includes “MW” for the EPA OU-02 wells, a two-digit number, and a suffix “A” (for the shallowest wells) through “D” (for the deepest wells). OPOG wells have been named as indicated by CDM, although WESTON has assigned an “A” suffix to the shallower well OW1A of the pair of wells near the rear of the Omega facility. Well locations and construction summaries are described in Table 1. Well locations and groundwater gradients are depicted in Figure 2.

Table 1: Monitoring Well Summary

Well ID	Location	Total Depth (feet bgs)	Screen Interval (feet bgs)
EPA OU-02 Shallow Wells			
MW01A	West side of Rivera Rd., south of Washington Blvd.	60	45-60
MW02A	West side of Byron Rd., south of Rivera Rd.	60	45-60
MW03A	Southwest side of McGee St., northwest of Santa Fe Springs Rd.	48	37.7-48
MW04A	Southeast side of Chetle Ave., north of Slauson Ave.	53	42.7-53
MW05A	East side of Chetle Ave., between Slauson Ave. and Rivera Rd.	53.6	43.3-53.6
MW06A	South side of Rivera Rd., just east of Wellsford Pl.	47.5	37.1-47.5
MW07A	Off Santa Fe Springs Rd., in York Park parking lot.	46	35.7-46
MW08A	North side of Burke St., just east of Sorenson Ave.	45	30-45
MW09A	South side of Burke St., between Sorenson Ave. and Dice Rd.	35	25-35
MW10A	Southwest side of Sorenson Ave., just southeast of John St.	62	52-62
MW11A	Southwest side of Sorenson Ave., just west of Santa Fe Springs Rd.	50	40-50
EPA OU-02 Intermediate Wells			
MW01B	West side of Rivera Rd., south of Washington Blvd.	85.4	75-85.4
MW04B	Southeast side of Chetle Ave., north of Slauson Ave.	80	69.7-80
MW08B	North side of Burke St., just east of Sorenson Ave.	75	65-75
MW09B	South side of Burke St., between Sorenson Ave. and Dice Rd.	60	49.7-60
EPA OU-02 Deep Wells			
MW04C	South side of Chetle Ave., east of Slauson Ave.	99	88.7-99
MW08C	North side of Burke St., just east of Sorenson Ave.	91.7	86.7-91.7
MW08D	North side of Burke St., just east of Sorenson Ave.	120	110-120
OPOG Shallow Wells			
OW-1A	12512 E. Whittier Blvd. (Omega site)	80	62.5-77.5
OW-2	West side of Putnam St. in front of 12482 Putnam St.	85	60-80
OW-3	West side of Putnam St., in front of property address 12519 Washington Blvd.	85	63-83
OW-4A	North side of Washington Blvd., west of Adler St.	74.8	49.8-69.8
OW-5	South side of Rivera Rd., just west of Byron St.	51	30-50
OW-6	West side of Lambert St., south of Washington Blvd.	58	38-58
OW-7	On the Whittier Blvd. frontage road, just north of the Omega site.	90.9	70.9-90.9
OW-8	Between OW-2 and OW-3 on west side of Putnam St.	80	60.4-80
OPOG Intermediate/Deep Wells			
OW-1B	Southwest of OW-1A, on adjacent Terra Pave property located on Putnam St.	130	110-120
OW-4B	Immediately adjacent to the east of OW-4A	127.2	112-122.3

2.0 QUARTERLY MONITORING DATA

2.1 GENERAL

This report presents the groundwater monitoring data for the second quarter 2002 (May) groundwater sampling. Groundwater samples were analyzed for combinations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), total target analyte list (TAL) metals, dissolved TAL metals, cyanide, and perchlorate. In addition, samples from the OPOG wells were analyzed for 1,4-dioxane. Although other water quality parameters including nitrogen (as nitrate + nitrite), total dissolved solids (TDS), total organic carbon (TOC), and anions were reported the previous quarter, these parameters are to be monitored on an annual basis and were not analyzed for the second quarter of 2002.

Monitoring well locations, water levels, and validated groundwater analytical data for this project have been entered into a database management system. The analytical results are presented in tabular format in Appendix A. A statistical summary of results is included in Appendix B. A well location and groundwater elevation map and maps depicting concentrations of selected analytes have been included to graphically present the groundwater monitoring database (Figures 2 through 11).

Groundwater sampling was conducted in accordance with the Sampling and Analysis Plan (SAP), consisting of a Field Sampling Plan (FSP) and a Quality Assurance Project Plan (QAPP), and approved by the EPA Quality Assurance Management Section (QAMS) (WESTON, 2001). Sampling and analytical methodologies are described in the SAP. VOCs, SVOCs, pesticides, PCBs, total and dissolved TAL metals, and cyanide were analyzed via the EPA Contract Laboratory Program (CLP). Perchlorate was analyzed by the EPA Region IX Richmond Laboratory, and analyses for 1,4-dioxane were performed by EMAX under contract to Region IX EPA. Data validation was conducted by QAMS. Data validation reports, including discussions of data Quality Assurance/Quality Control (QA/QC) are presented with hard copy data for VOC analysis, which received 100% Tier 2 validation, in Appendix C. The remaining analytes received less extensive Tier 1A validation. For CLP data, automated Tier 1A validation was completed using CADRE software. Final flag data reports for non-VOCs are also included in Appendix C. Chain-of-custody documentation is contained in Appendix D.

The EPA OU-02 monitoring wells are equipped with dedicated bladder pumps and tubing that connect to a compressor at ground surface. Purging was accomplished using low flow methods. The flow rate was adjusted to approximately 0.1 gallons per minute (gpm). The depth to water was constantly monitored to ensure that the water level did not decline more than 0.3 feet during the low flow purge. Water quality parameters, including temperature, pH, specific conductance, dissolved oxygen (DO), and oxidation/reduction potential (ORP), were monitored at approximate three-minute intervals for stability. Purging continued for at least 30 minutes and until the water quality parameters stabilized within the ranges specified in the FSP. Samples were collected through the dedicated tubing.

WESTON subcontracted Blaine Tech Services, Inc. to purge and monitor parameters at the OPOG wells and assist in sample collection. Water quality parameters monitored for the OPOG wells included temperature, pH, specific conductance, DO, ORP, and turbidity. The wells were purged at rates of approximately 0.5 to 5.5 gpm. Wells were purged of at least three well casing and saturated gravel pack volumes, and until water quality parameters stabilized within specified limits. For wells that pumped dry prior to achieving three volumes, purging ceased and sampling proceeded after the water level recovered to at least 80 percent of the original level. Sampling of the OPOG wells was accomplished using disposable bailers for VOCs and through the dedicated tubing for all other analytes.

Field sampling forms documenting the purge records for both the EPA OU-02 and OPOG wells are included in Appendix E. The ranges of values for the water quality parameters monitored during purging are discussed below in Section 2.3.

2.2 GROUNDWATER ELEVATION AND FLOW

Depth to groundwater in all EPA OU-02 wells and 5 of the 10 OPOG wells was measured on 16 May 2002. Due to the inaccessibility to 5 of the "OW" wells on that date, water levels were measured at those locations subsequently. Measured depths to groundwater and calculated groundwater elevations are presented in Table 2. Due to the two groups of monitoring wells having been surveyed for elevation based on different benchmarks and each using a different datum, an assumed correction of +2.2 feet has been applied to the top of casing (toc) elevation for the OPOG wells. This value provided the best agreement in water level between wells MW01A, MW02A, and OW-5, which are located in the same area.

Depth to water in the wells near the Omega site ranges from approximately 44 to 75 feet below ground surface (bgs), whereas farther downgradient toward Santa Fe Springs, water occurs as shallow as approximately 21 feet bgs (well MW07A).

Groundwater gradient and flow direction varies with location. In the vicinity of the Omega site, the gradient is generally toward the west-southwest, at a relatively steep 0.008 to 0.009 ft./ft. In the vicinity of Rivera Road and Washington Blvd., the gradient flattens considerably, to 0.0008 to 0.0017 ft./ft. toward the southwest. Farther southwest, the gradient is approximately 0.0026 ft./ft. toward the southwest (along the southeastern part of the well network area) or toward the south (in the western portion of the well network area). Well locations and groundwater elevation contours for the shallow wells in the monitoring network are presented in Figure 2. The gradients described were measured using the contours on the scaled map.

Comparison of groundwater elevations between clustered wells with different screened intervals suggests either net downward or upward vertical hydraulic gradients, depending which wells are compared. At MW01A and MW01B, the wells are screened at different depths within essentially the same lithologic unit. The slightly higher water elevation in

Table 2: Second Quarter 2002 Water Levels

Well ID	Elevation at Top of Casing (feet MSL)	Depth to Water (feet btoc)	Depth to Top of Screen Interval (feet btoc)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation from Previous Quarter (feet)
MW01A	158.21	31.53	45	126.68	-0.98
MW01B	158.09	31.39	75	126.70	-0.97
MW02A	154.74	28.03	45	126.71	-0.92
MW03A	151.99	26.51	37.7	125.48	-0.64
MW04A	147.20	23.76	42.7	123.44	-0.81
MW04B	147.23	23.64	69.7	123.59	-0.79
MW04C	147.10	25.32	88.7	121.78	-0.98
MW05A	151.57	25.66	43.3	125.91	-1.26
MW06A	150.63	25.66	37.1	124.97	-1.53
MW07A	143.65	21.27	35.7	122.38	-0.48
MW08A	150.25	27.17	30	123.08	-0.92
MW08B	150.11	27.10	65	123.01	-0.95
MW08C	150.14	27.94	86.7	122.20	-1.12
MW08D	150.02	32.26	110	117.76	-2.17
MW09A	149.37	25.67	25	123.70	-0.79
MW09B	149.34	29.78	49.7	119.56	-2.08
MW10A	147.71	31.38	52	116.33	-0.10
MW11A	151.20	34.46	40	116.74	-0.11
OW-1A	212.50*	75.10	62.5	137.40	-0.24
OW-1B	207.18*	74.95	110	132.23	0.41
OW-2	202.30*	67.70	60	134.60	-0.39
OW-3	198.53*	63.86	63	134.67	-0.50
OW-4A	184.67*	55.56	49.8	129.11	-0.35
OW-4B	184.42*	60.77	112	123.65	-1.96
OW-5	154.16*	27.68	30	126.48	-0.94
OW-6	172.74*	44.55	38	128.19	-0.55
OW-7	214.21*	75.08	70.9	139.13	-0.25
OW-8	200.62*	65.81	60.4	134.81	-0.20

*— Adjustment of 2.2 feet added to top of casing elevation to equalize survey datums.

MW01B (+0.02 feet) may indicate net upward gradient there, but the similarity in elevations is more suggestive of a static condition vertically at this location.

A net upward gradient is indicated between the intervals screened in MW04B and MW04A, where two sands are separated by a silt interval at least five feet in thickness. Groundwater elevation in MW04B was 0.45 feet higher than in MW04A. Higher contaminant concentrations are also reported from MW04B. A downward vertical gradient is suggested between MW04B and MW04C, based on a 1.81-foot difference in groundwater elevations. An approximately 8-foot thickness of clay to sandy silt separates the screened intervals between MW04B and MW04C. Contaminant concentrations are much lower in MW04C.

At the MW08 cluster of wells, lower groundwater levels in progressively deeper-screened wells indicate a consistent downward vertical gradient. Differences between MW08A, MW08B, and MW08C were relatively small (0.88 feet between MW08A and MW08C), but groundwater elevation in MW08D during the second quarter 2002 was 5.32 feet lower than in MW08A. Most contaminant concentrations decrease sharply with screen depth at this location, but reported acetone concentrations are elevated in MW08D relative to MW08A or MW08B.

Significantly lower groundwater elevations were also measured for the deeper wells of the pairs at MW09A and MW09B, OW1A and OW1B, and OW4A and OW4B, which indicate a vertical gradient that is typically downward. Further, most contaminant concentrations are lower in deeper wells.

Groundwater levels declined in all but one of the monitoring wells between the first and second quarter of 2002. The differences were mostly less than one foot, but a decline of more than two feet was observed at MW08D and MW09B.

2.3 WATER QUALITY PURGE PARAMETERS

The stabilized ranges in water quality parameters observed between wells during purging are discussed below. The parameters include temperature, pH, specific conductance (conductivity), turbidity, dissolved oxygen (DO), and oxidation/reduction potential (ORP). Copies of field purge records are included in Appendix D.

Temperatures ranged from 20 to 25 degrees Celsius. Values for pH ranged from approximately 6.2 to 7.8. Conductivity values in most wells ranged from about 940 to 2,080 umohs/cm, although 2,580 umohs/cm was observed at MW07A. Turbidity was not monitored quantitatively for the MW wells, but ranged from 2 NTU to approximately 276 NTUs for the OPOG wells. DO ranged from less than 1 mg/L to approximately 7.7 mg/L. ORP ranged from approximately 3 to 523 millivolts (mV) at most locations. However, negative ORP values were observed during purging of wells MW08C, MW08D, OW1A, OW1B, and OW4B, suggesting that relatively anoxic or reducing conditions occur at these locations.

2.4 QUARTERLY MONITORING PARAMETERS

A list of samples and analyses performed, including field quality control (QC) samples, is presented in Table 3. Tabulated analytical results and data validated reports are presented in Appendices A and C, with a statistical summary in Appendix B.

2.4.1 Volatile Organic Compounds (VOCs)

Groundwater samples collected during the May 2002 quarterly sampling event were analyzed for VOCs using EPA CLP Analytical Services (CLPAS) Method OLC03.2 for low-level volatiles. Dilution was necessary prior to analysis in several samples due to elevated contaminant concentrations. *The dilution raised the reporting limits for other*

Table 3: Second Quarter 2002 Sample Analysis Matrix

Sample ID	VOCs	SVOCs	Pesticides/PCBs	Total Metals + CN	Dissolved Metals	1,4-Dioxane	Perchlorate	Comments
GW202-MW01A-0055	\	X	X	X	X		X	
GW202-MW01B-0080	X	X	X	X	X		X	
GW202-MW02A-0055	X	X	X	X	X		X	
GW202-MW02A-2004	X							Trip Blank
GW202-MW03A-0042	X	X	X	X	X		X	Incl Lab QC Volumes
GW202-MW04A-0047	X	\	X	X	\		\	
GW202-MW04B-0075	X	\	X	X	\		X	
GW202-MW04B-2005	X							Trip Blank
GW202-MW04C-0094	X	X	X	X	X		X	
GW202-MW05A-0049	X	X	X	X	X		X	
GW202-MW05A-1049	X	X	X	X	X		X	Sequential Duplicate
GW202-MW06A-0042	X	X	X	X	X		X	
GW202-MW06A-2006	X							Trip Blank
GW202-MW07A-0041	X	\	X	X	X		X	
GW202-MW08A-0040	X	X	X	X	X		X	
GW202-MW08A-1040	X	X	X	X	X		X	Sequential Duplicate
GW202-MW08B-0070	X	\	X	X	X		X	
GW202-MW08B-2007	X							Trip Blank
GW202-MW08C-0087	\	X	X	X	X		X	Incl Lab QC Volumes
GW202-MW08D-0116	X	\	X	X	X		\	
GW202-MW09A-0032	\	\	X	X	X		X	
GW202-MW09A-2008	X							Trip Blank
GW202-MW09B-0054	X	X	X	X	X		X	
GW202-MW10A-0057	X	\	X	X	X		X	
GW202-MW11A-0045	X	X	X	X	X		X	
GW202-MW11A-2009	X							Trip Blank
GW202-OW1A-0080	X	\	X	X	X	X	X	
GW202-OW1B-0116	X	\	X	X	\	X	X	
GW202-OW2-0078	\	X	X	X	X	X	\	
GW202-OW3-0080	X	X	X	X	X	X	X	
GW202-OW3-2001	\							Trip Blank
GW202-OW4A-0073	X	X	X	X	\	X	X	
GW202-OW4B-0125	X	X	\	X	X	X	X	Incl Lab QC Volumes
GW202-OW5-0048	X	\	X	X	X	X	X	
GW202-OW6-0055	\	X	\	X	\	X	\	
GW202-OW6-2002	X							Trip Blank
GW202-OW7-0081	X	X	X	X	X	X	\	
GW202-OW7-4001	X							Equipment Blank
GW202-OW8-0075	\	\	X	X	X	\	X	
GW202-OW8-1075	\	X	X	X	\	X	X	Sequential Duplicate
GW202-OW8-2003	X							Trip Blank

analytes, resulting in estimated or non-detect results for lower concentration analytes that might be present in some samples.

VOCs with concentrations (including estimated, J-flagged values) exceeding California Maximum Contaminant Levels (MCLs) in at least one well were benzene; 1,2-dichloroethane (1,2-DCA); 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-

1,2-DCE); 1,1-dichloroethane (1,1-DCA); methyl-tertiary-butyl ether (MTBE); tetrachloroethene (PCE); 1,1,1-trichloroethane (1,1,1-TCA); trichloroethene (TCE); trichlorofluoromethane (Freon 11); 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113); chloroform; carbon tetrachloride; and vinyl chloride.

The highest concentrations of PCE, TCE, Freon 113, 1,1-DCE, 1,1,1-TCA, and 1,2-DCA were detected primarily beneath or immediately downgradient of the Omega site. Elevated concentrations of PCE, TCE, Freon 11, Freon 113, and 1,1-DCE were also detected in wells as far as approximately 3,500 feet downgradient of Omega.

The highest concentrations of cis-1,2-DCE were detected upwards of one mile downgradient of the Omega site in well MW08A (22^J ug/L). The highest concentration of benzene was detected approximately 1,185 feet downgradient of the site in well OW4B (15 ug/L) and the highest concentration of MTBE was detected in well OW6 (32^J ug/L) located approximately 1,650 feet downgradient. 1,1-DCA was detected in wells immediately downgradient of the Omega site and in wells located over one mile downgradient of the site.

Concentrations of PCE, TCE, Freon 113, Freon 11, cis-1,2-DCE, chloroform, acetone, 1,1-DCE, and 1,1-DCA are presented in Figures 3 through 11. Representative isoconcentration contours are included on Figures 3 through 6. These contours are adapted from two phases of an exploratory investigation by WESTON (2002, and in progress), adjusted to reflect the quarterly monitoring data. The historical contours from the explorations are shown as dotted lines, while the portions reflecting the current monitoring data are shown as dashed lines.

PCE was detected in 10 of the 11 shallow EPA wells (MW01A through MW11A, but not MW03A), at concentrations ranging from 9^J ug/L in MW11A to 3,800 ug/L in MW02A. PCE was detected in all four of the intermediate-depth EPA wells (MW01B, MW04B, MW08B, and MW09B) at concentrations ranging from 9 ug/L in MW08B to 950^J ug/L in MW04B. The “J” superscript is a data validation flag indicating an estimated value.

PCE was detected at a concentration of 11 ug/L in MW08C and 10^J ug/L in MW04C. PCE was detected in the deepest well (MW08D) at a concentration of 0.7 ug/L. PCE exceeded the MCL of 5 ug/L in all EPA OU-02 wells except MW03A and MW08D (including estimated, J-flagged results).

Including estimated J-flagged values, PCE was reported in all eight of the shallow OPOG wells (OW1A through OW8), ranging from 7 ug/L in OW7 to 59,000 ug/L in OW1A. PCE was detected at a concentration of 29 ug/L in well OW4B and 190 ug/L in OW1B. PCE exceeded the MCL in all OPOG wells.

TCE was detected in all of the shallow EPA wells at concentrations ranging from 2 ug/L in MW11A to 830 ug/L in wells MW02A and MW05A. TCE was detected in all four of the intermediate EPA wells at concentrations ranging from 2 ug/L in MW09B and MW08B, to 480 ug/L in MW04B. TCE was detected in both of the deeper EPA wells at

concentrations of 64 ug/L in MW04C and 3 ug/L in MW08C. TCE was detected at a concentration of 15 ug/L in MW08D. TCE exceeded the MCL of 5 ug/L in all EPA wells except MW08B, MW08C, MW09B, and MW11A.

TCE was detected in six of the eight of the shallow OPOG wells, ranging from 26 ug/L in OW6 to 1,100 ug/L in OW8. TCE was not reported in well OW1A, most likely due to a reporting limit of 2,500 ug/L imposed on that sample because of high dilution. TCE was detected in both the intermediate OPOG wells at concentrations of 6 ug/L in OW1B and 15 ug/L in OW4B. TCE exceeded the MCL of 5 ug/L in six of the eight shallow OPOG wells.

Freon 113 results exceeded the MCL of 1,200 ug/L in two shallow EPA wells: MW05A (1,100 ug/L) and MW02A (1,900 ug/L), and one intermediate EPA well: MW04B (1,200 ug/L). Freon 113 exceeded the MCL in one shallow OPOG well, OW2, at a concentration of 1,800 ug/L. The maximum Freon 11 concentration reported was 680 ug/L in MW02A, and the MCL of 150 ug/L was exceeded in six wells including MW02A, MW04B, MW05A, OW2, OW3, and OW6.

1,1-DCE was detected in 9 of the 11 shallow EPA OU-02 wells at concentrations ranging from 2 ug/L in MW09A to 2,200 ug/L in MW02A. 1,1-DCE was detected in the intermediate EPA wells at concentrations ranging from 3 ug/L in MW08B to 1,300 ug/L in MW04B. 1,1-DCE was detected in MW04C at 2 ug/L. 1,1-DCE exceeded the MCL of 6 ug/L in wells MW01A, MW01B, MW02A, MW03A, MW04A, MW04B, and MW05A.

1,1-DCE was detected in six of the eight shallow OPOG wells, ranging from 1^J ug/L in OW7 to 2,400 ug/L in OW8. Apparently, this compound was diluted below the reporting limit at OW1A. 1,1-DCE was detected at 4 ug/L in OW1B, and 22 ug/L in OW4B. Concentrations of 1,1-DCE exceeded the MCL of 6 ug/L in five of the eight shallow OPOG wells (with the exception of OW1B and the upgradient well OW7).

Cis-1,2-DCE exceeded the MCL of 6 ug/L in wells MW04A, MW04B, and MW08A with a maximum concentration of cis-1,2-DCE detected in MW08A at 22^J ug/L. 1,1,1-TCA exceeded the MCL of 200 ug/L in well OW1A, with a concentration of 3,700 ug/L. 1,2-DCA exceeded the MCL of 0.5 ug/L in wells MW04A, MW04B, and OW1B with a maximum concentration of 4^J ug/L at MW0B.

1,1-DCA was detected in five EPA OU-02 wells and two OPOG wells. 1,1-DCA concentrations in the EPA OU-02 wells ranged from 0.2^J ug/L in wells MW10A and MW06A to 4^J ug/L in MW04B. The OPOG wells, OW1B and OW6, reported concentrations of 1 ug/L and 0.6 ug/L, respectively. 1,1-DCA did not exceed the MCL of 5 ug/L in any of the wells.

Benzene exceeded the MCL of 1 ug/L in four wells: MW03A, MW04B, OW1B, and OW4B, with a concentrations ranging from 2 ug/L (OW1B) to 15 ug/L (OW4B). MTBE exceeded the MCL of 13 ug/L in well OW6 with a concentration of 32^J ug/L.

Although acetone currently has no MCL established, it was detected in seven EPA OU-02 wells and three OPOG wells. Acetone concentrations detected in the EPA wells ranged from 3^J ug/L in MW04C to 610^J ug/L in MW08D. Acetone was detected in the OPOG wells at concentrations ranging from 6^J ug/L in OW1B to 180^J ug/L in OW4A. Most of the acetone results were flagged as estimated “J” values, primarily because of detections in blanks, laboratory calibration variance, and detections below adjusted reporting limits in diluted samples.

Chloroform exceeded the MCL of 100 ug/L for total trihalomethanes in two wells: MW04B and MW05A, with concentrations ranging from 120 ug/L in MW04B to 1,200 ug/L in MW05A.

Carbon tetrachloride exceeded the MCL of 0.5 ug/L in MW01B and MW05 with concentrations of 31 ug/L and 180 ug/L respectively. Vinyl chloride exceeded the MCL of 0.5 ug/L in one well, OW1B, with a concentration of 2 ug/L.

Well locations with completions at multiple depths typically exhibited decreasing concentrations of VOCs at greater screen depth intervals. For example, TCE was reported in the shallow MW01A well with a concentration of 440 ug/L, whereas the concentration in the deeper well MW01B was reported at 210 ug/L. This relationship remained true among most of the multiple completion wells, except for the MW04 location, where higher concentrations of analytes were detected in the second interval (MW04B) as opposed to the shallow interval (MW04A). PCE was detected in MW04B at a concentration of 960^J ug/L and the shallower well, MW04A, had a reported concentration of 260 ug/L. This is consistent with the results of the grab samples at similar depth intervals collected from boring PP020 in that area during WESTON's Phase I Investigation (WESTON, 2001). Another location where higher concentrations of certain contaminants were reported from deeper intervals is at the MW08 cluster. Acetone is higher in MW08C and MW08D than in MW08A or MW08B. TCE is higher in MW08D than in MW08B and MW08C. Other constituents are lower concentration in the deeper wells.

2.4.2 Semi-Volatile Organic Compounds

Groundwater samples were analyzed for semi-volatile organic compounds (SVOCs, also known as base-neutral-acid extractable compounds [BNAs]) using CLPAS Method OLC03.2. The SVOCs detected were benzaldehyde, di-n-butylphthalate, phenol, pyrene, and bis(2-Ethylhexyl)phthalate, all of which, except bis(2-Ethylhexyl)phthalate, currently do not have an established MCL. Reported concentrations were uniformly low (all estimated values below CRQLs) and detections were isolated.

Benzaldehyde was reported in wells MW05A, OW3, OW4A, and OW8 at concentrations ranging from 1.2^J ug/L in OW4A to 1.7^J ug/L in OW8. Di-n-butylphthalate was reported in MW03A at a concentration of 1.0^J ug/L and pyrene was detected in OW4A at a concentration of 1.3^J ug/L. Phenol was detected in wells OW6 and OW8 with concentrations of 2.1^J ug/L and 4.5^J ug/L, respectively.

Bis(2-Ethylhexyl)phthalate was reported in OW4A at a concentration of 1.1^J ug/L, which is below the MCL of 4.0 ug/L.

2.4.3 Pesticides/PCBs

Groundwater samples were analyzed for pesticides and PCBs using CLPAS OLC03.2. PCBs were not detected in any sample. The only pesticides detected were beta-benzene hexachloride (beta-BHC) and methoxychlor. Beta-BHC was detected in the duplicate sample OW6 at a concentration of 0.0084 ug/L. This concentration is far below the MCL of 1.0 ug/L. Methoxychlor was reported in OW1A at a concentration of 0.056^J ug/L, however, this also does not exceed the respective MCL of 40 ug/L.

2.4.4 Total TAL Metals

Groundwater samples were analyzed for total (unfiltered samples) target analyte list (TAL) metals using CLPAS Method ILM04.1. Aluminum, chromium, and/or selenium were detected at concentrations exceeding primary MCLs at several locations. Though arsenic concentrations did not exceed the current MCL of 50 ug/L, wells MW08C and OW1B contained arsenic concentrations of 17.8 ug/L and 21.9 ug/L, respectively, both of which exceed the MCL of 10 ug/L that is expected to take effect in 2006.

Concentrations of aluminum exceeded the primary MCL of 1,000 ug/L in wells OW1A, OW1B, and OW7. The maximum concentration of aluminum was detected in well OW1B at 29,800 ug/L. Total chromium concentrations exceeded the MCL of 50 ug/L in wells MW01A, MW04B, MW06A, MW08A, and OW1B, with a maximum concentration of 79.4 ug/L detected in OW1B. Selenium exceeded the MCL of 50 ug/L in well MW08A with a concentration of 80.6 ug/L.

Manganese was detected in 21 of the 28 monitoring wells. Detected concentrations of manganese ranged from 0.69 ug/L at MW01A and MW09B to 1,600 ug/L at OW1B. Iron was detected in all 28 monitoring wells except OW5. Detected concentrations of iron ranged from 17 ug/L at MW08B to 173,000 ug/L at OW1B.

2.4.5 Dissolved TAL Metals

Groundwater samples were analyzed for dissolved (filtered samples) TAL metals using Method CLPAS ILM04.1. Chromium and/or selenium were detected at concentrations exceeding MCLs at several locations. Dissolved total chromium exceeded the MCL of 50 ug/L in wells MW01A, MW04B, MW06A, and MW08A, with a maximum concentration of 77.3 ug/L in MW08A. Unlike the elevated chromium concentration reported for the unfiltered sample OW1B, the dissolved chromium result for OW1B was not detected above 0.8 ug/L. Selenium exceeded the MCL of 50 ug/L in well MW08A with a concentration of 88.4 ug/L.

Dissolved manganese was detected in 19 of the 28 monitoring wells. Detected concentrations of manganese ranged from 0.54 ug/L at MW04A to 845 ug/L at MW09A. Dissolved iron was detected in 21 of the 28 monitoring wells. Detected concentrations of iron ranged from 17 ug/L at MW07A to 450 ug/L at MW03A.

2.4.6 Perchlorate

Groundwater samples were analyzed for perchlorate using EPA Method 314.1. Perchlorate was detected in samples from 10 of the 11 shallow EPA OU-02 wells at concentrations ranging from 1^J ug/L in MW03A to 7 ug/L in well MW02A. Perchlorate was detected in all four intermediate EPA wells at concentrations ranging from 2 ug/L in MW01B to 6 ug/L in MW04B. Perchlorate was detected in both of the deeper EPA wells at 2 ug/L in MW08C and 3 ug/L in MW04C. Perchlorate was not detected in the deepest EPA well MW08D above the reporting limit of 2 ug/L. Perchlorate equaled or exceeded the California Department of Health Services Drinking Water Action Level for Contaminants of Current Interest of 4 ug/L in MW02A, MW04B, MW05A, MW06A, MW07A, MW08A, MW08B, MW09B, MW10A, and MW11A.

Perchlorate was detected in all eight shallow OPOG wells at concentrations ranging from 2 ug/L in OW6 to 6 ug/L in OW4A. Perchlorate was detected in deeper wells OW1B and OW4B at 2 ug/L in both. Perchlorate met concentrations or exceeded the California Action Level in OW4A and OW5.

2.4.7 Total Cyanide

Groundwater samples were analyzed for total cyanide using EPA CLPAS Method ILM04.1. Cyanide did not exceed the primary MCL of 200 ug/L at any sampling location. Cyanide was detected in one EPA OU-02 well, MW01A, at a concentration of 1.8 ug/L, and in one OPOG well, OW5, at a concentration of 1.1 ug/L.

2.4.8 1,4-Dioxane

Groundwater samples from the OPOG wells were analyzed for 1,4-dioxane using EPA Method 8270 with selective ion monitoring (SIM) or isotopic dilution. 1,4-dioxane was detected in seven of the OPOG wells, at concentrations exceeding the State of California Department of Health Services (Cal-DHS) Action Level of 3 ug/L. 1,4-dioxane was detected at concentrations ranging from 6.5^J ug/L in OW4A to 15,000^J ug/L in OW1A.

3.0 SUMMARY AND CONCLUSIONS

Groundwater sampling was completed from the 18 EPA OU-02 monitoring wells and the ten OPOG wells during the second quarter of 2002. Due to CDM having reduced the sampling of the OPOG wells to a biannual event, WESTON conducted the sampling for both EPA and OPOG wells.

The 18 OU-02 wells were purged and sampled using low flow sampling methods, collecting samples directly from the discharge. The ten OPOG wells were purged using submersible pumps and sampled using disposable bailers for VOCs and collecting samples for other analyses from the pump discharge.

The primary contaminants of concern detected in the groundwater samples are halogenated VOCs and Freon compounds. Samples were also analyzed for total and dissolved metals, cyanide, perchlorate, SVOCs (BNAs), and pesticides/PCBs. The ten OPOG wells were also sampled for 1,4-dioxane. Other water quality parameters including nitrogen, TDS, TOC, and anions are monitored on an annual basis only and were not analyzed this quarter.

Depth to water near the Omega site ranges from approximately 44 to 75 feet bgs, whereas farther downgradient toward Santa Fe Springs, water occurs as shallow as approximately 21 feet bgs. The groundwater gradient near the Omega site is generally toward the west-southwest, at a relatively steep 0.008 to 0.009 ft./ft. In the vicinity of Rivera Road and Washington Blvd., the gradient flattens considerably, to as low as 0.0008 ft./ft. toward the southwest. Farther southwest, the gradient is approximately 0.0026 ft./ft. toward the southwest (along the southeastern part of the monitoring area) or toward the south (in the western portion of the monitoring area).

Analytical results confirm the occurrence of elevated concentrations of PCE, TCE, Freon 113, and Freon 11 in the groundwater, particularly in the vicinity of the Omega site. The concentrations of these compounds exceed their respective MCLs at most well locations near Omega, in some cases by orders of magnitude. Other VOCs were detected in at least one well in concentrations equaling or exceeding their respective MCLs including benzene, 1,2-DCA, 1,1-DCE; cis-1,2-DCE, MTBE, 1,1,1-TCA, chloroform, carbon tetrachloride, and vinyl chloride.

SVOCs detected in the EPA and OPOG wells include di-n-butylphthalate, benzaldehyde, phenol, pyrene, and bis(2-ethylhexyl)phthalate. OW4A was the only well with a detection of bis(2-ethylhexyl)phthalate, however the sample did not exceed the MCL of 4 ug/L. All other SVOC compounds were below CLP CRDLs.

The only pesticides detected were beta-BHC and methoxychlor reported in very low concentrations. Beta-BHC was detected in the duplicate OW6 sample, and methoxychlor was reported in OW1A. Both samples were reported to have concentrations below their respective MCLs.

1,4-dioxane was analyzed only for the OPOG wells, and detected in seven wells at concentrations ranging from 6.5^J ug/L at OW4A to 15,000^J ug/L at OW1A.

Total metals including aluminum, chromium, and selenium, and dissolved metals including chromium and selenium were reported in concentrations exceeding their respective primary MCLs in one to five well locations each. The maximum total aluminum concentration was 29,800 ug/L at OW1B. Maximum total chromium concentration was 79.4 ug/L at OW1B, and the maximum dissolved total chromium was 77.3 ug/L at MW08A. The maximum selenium concentration reported was 80.6 ug/L (total) and 88.4 ug/L (dissolved), at MW08A.

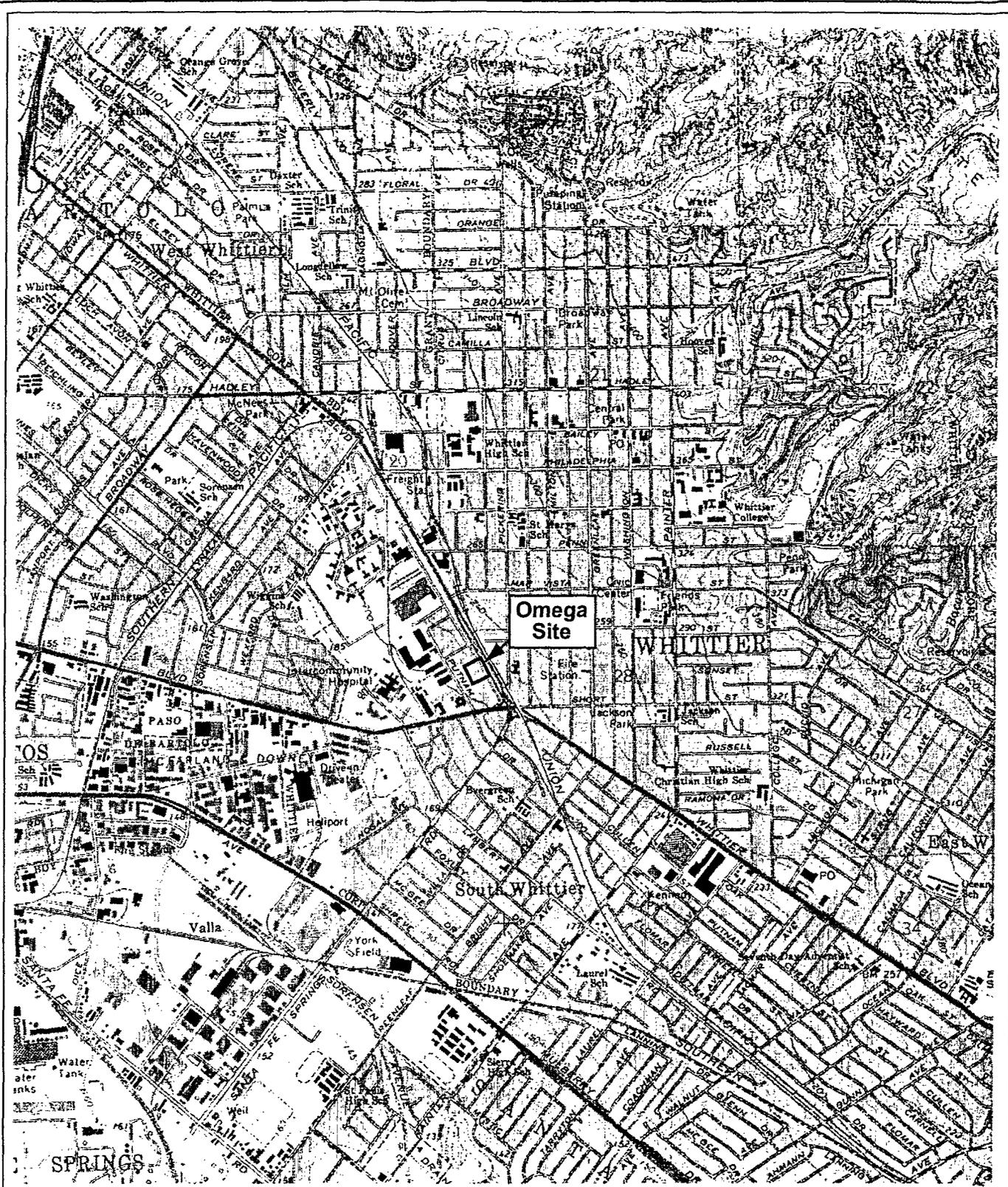
Cyanide did not exceed the primary MCL of 200 ug/L at any sampling location. Cyanide was detected in one EPA OU-02 well, MW01A, at a concentration of 1.8 ug/L, and in one OPOG well, OW5, at a concentration of 1.1 ug/L. Perchlorate was reported in concentrations exceeding the California DHS Drinking Water Action Level of 4 ug/L in 12 monitoring wells, with a maximum concentration of 7 ug/L .

The network of OPOG and OU-02 wells will continue to be sampled on a quarterly basis in order to monitor concentration trends, detect hotspot migration, and evaluate different portions of the contamination plume.

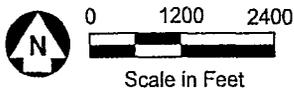
4.0 REFERENCES CITED

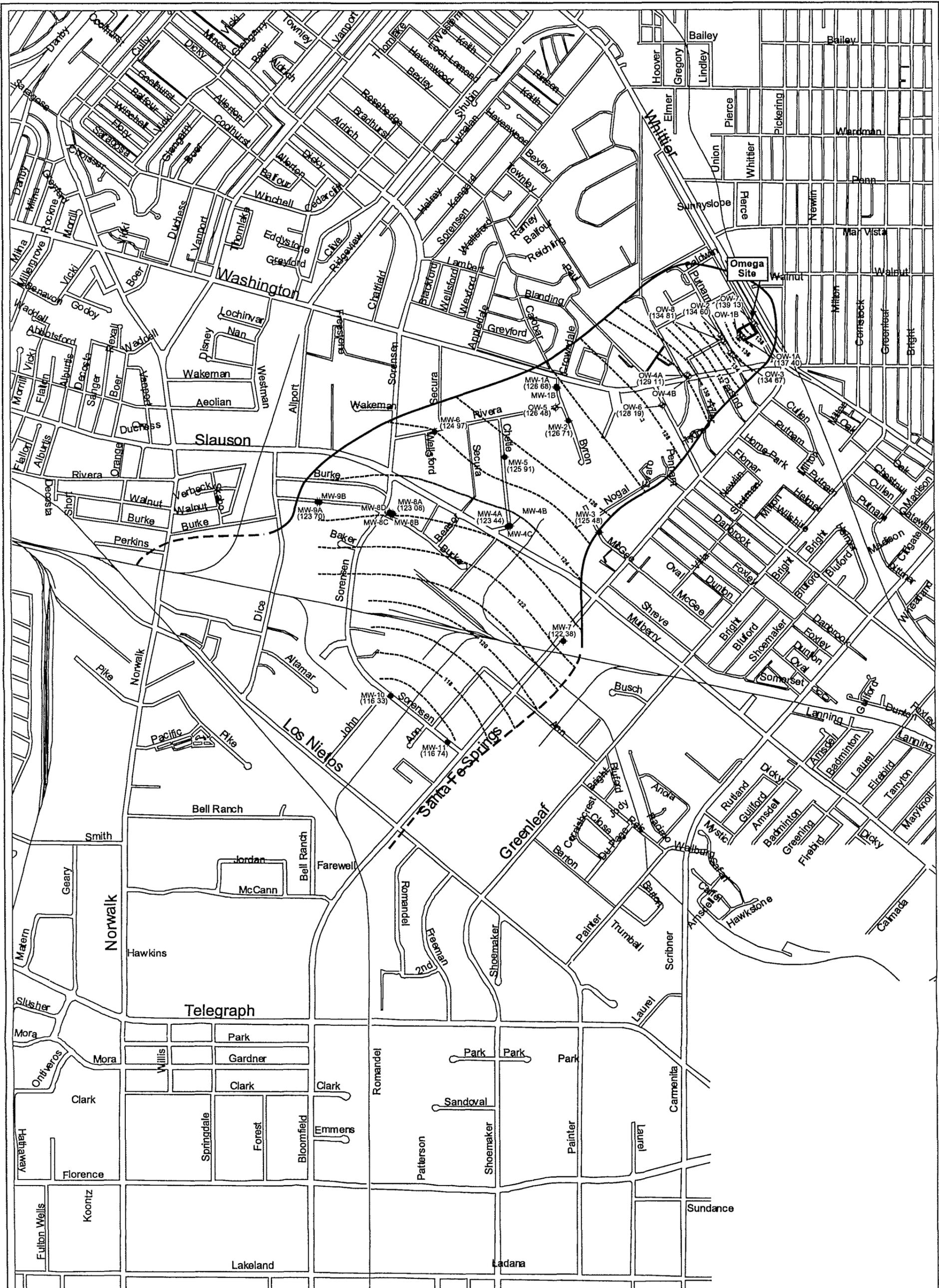
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Figures

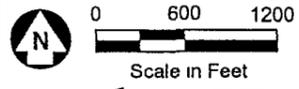


Site Location Map
Omega Superfund Site



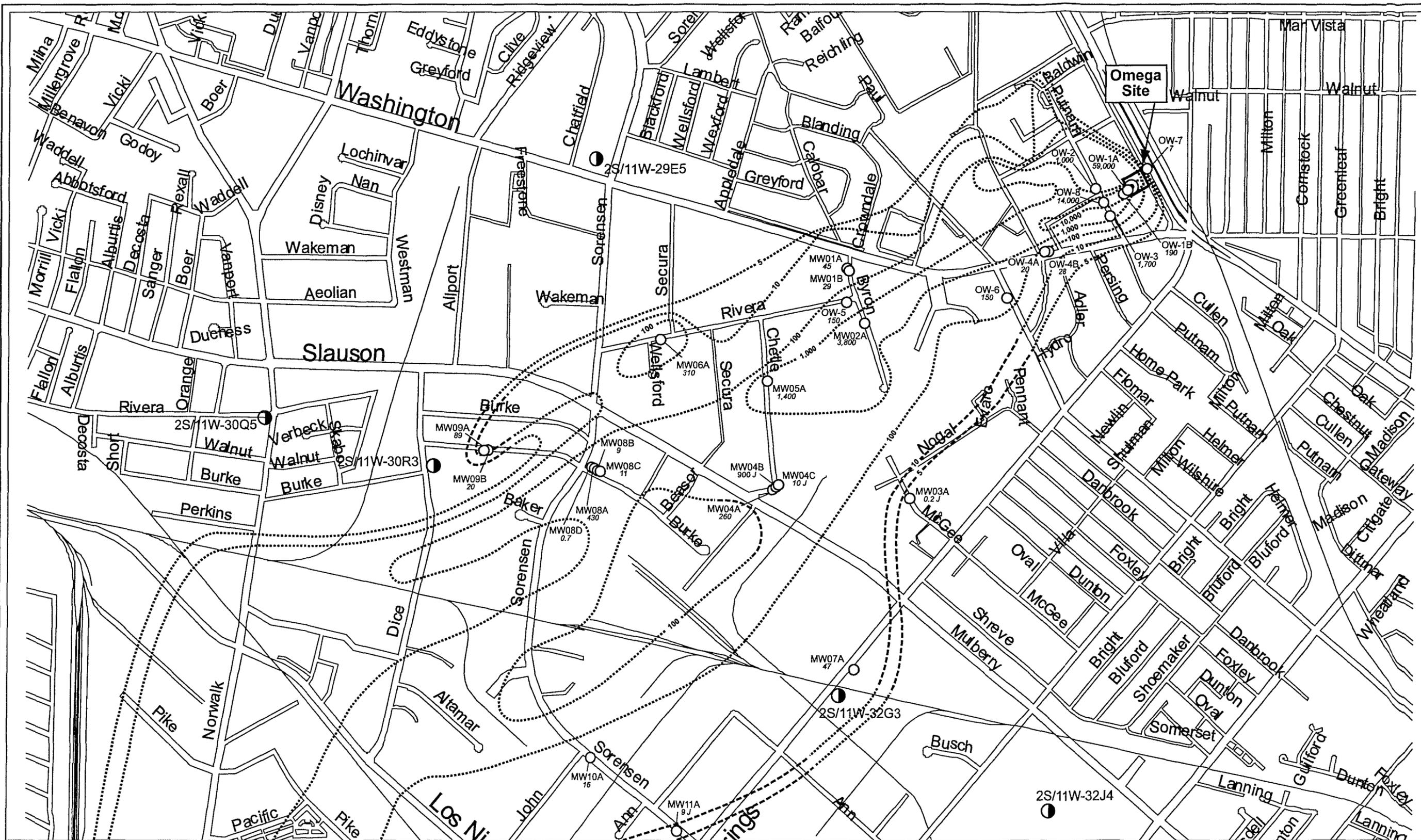


Omega Superfund Site Groundwater Elevations—2nd Quarter 2002



- PRP Monitoring Wells
- Phase 1 Monitoring Wells
- Approximate Location of Plume
- (116.43) Groundwater Elevation (May 2002)
- Groundwater Elevation Contour (every foot)



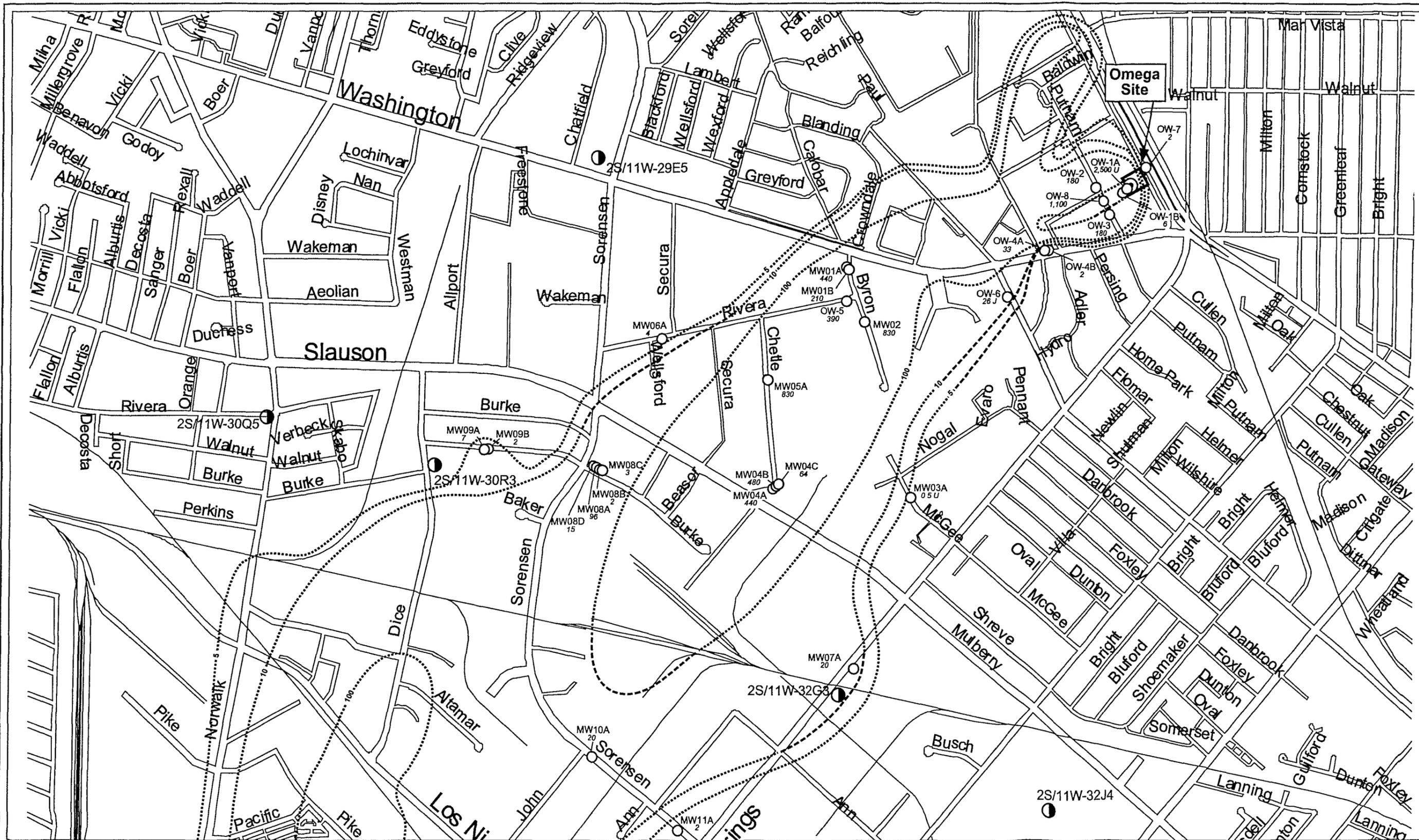


0 400 800
Scale in Feet
WESTON SOLUTIONS

- Existing Monitoring Well and Number
- Production Well and Number
- PCE Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data
- Isoconcentration Line Based Upon Phase 1 (Aug. 2001) and Phase 2 (Aug. 2002) Hydrogeology Investigation Data

Notes: 1) Concentrations in µg/L.
2) Samples collected May 2002.
3) The isoconcentration lines are based on Phase 1 and Phase 2 Hydrogeology Investigation data, but have been updated with the most recent quarterly groundwater sampling data.

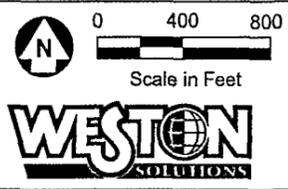
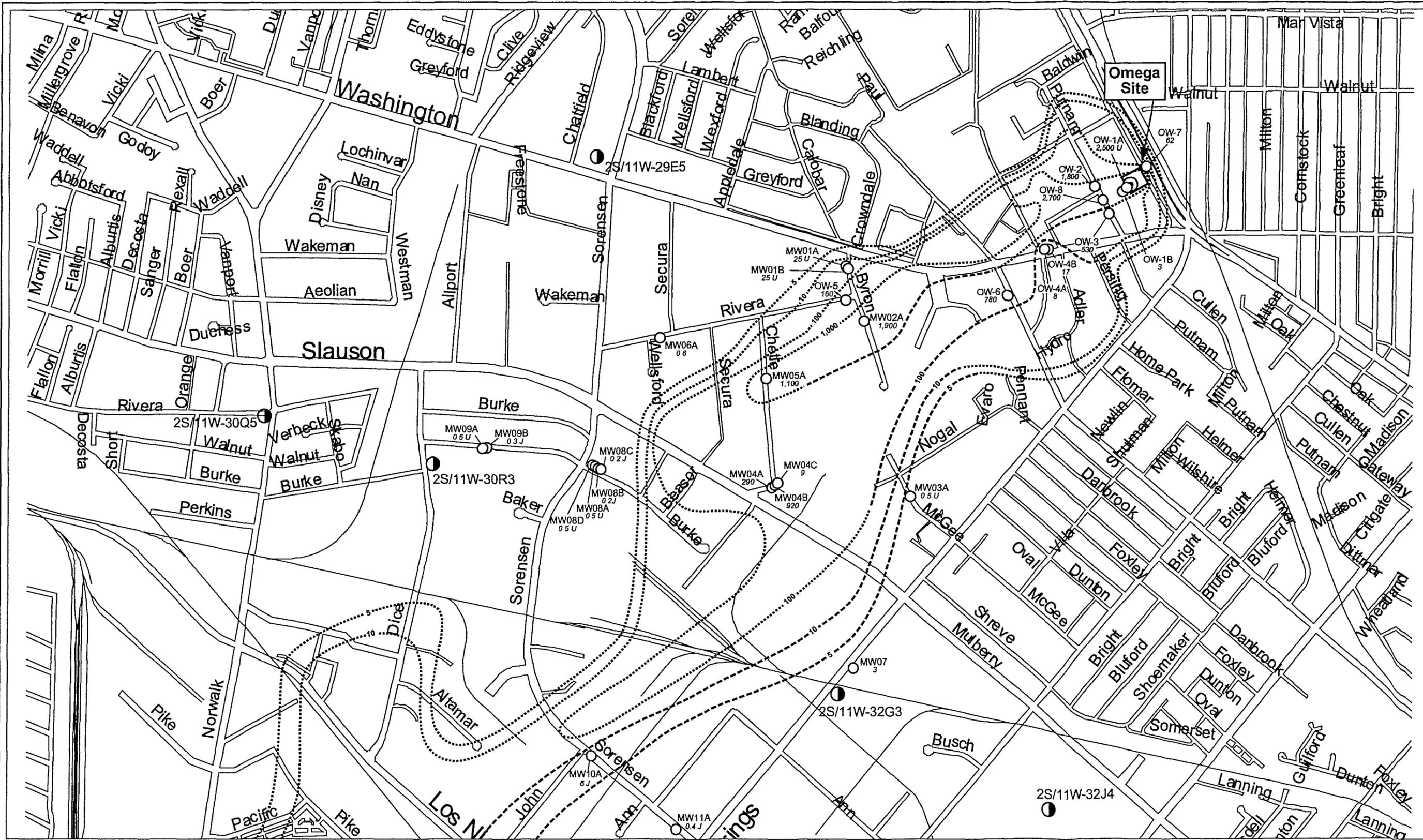
PCE Groundwater Concentrations—2nd Quarter 2002 Omega Superfund Site



- Existing Monitoring Well and Number
- Production Well and Number
- TCE Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data
- Isoconcentration Line Based Upon Phase 1 (Aug. 2001) and Phase 2 (Aug. 2002) Hydrogeology Investigation Data

- Notes:
- 1) Concentrations in µg/L.
 - 2) Samples collected May 2002.
 - 3) The isoconcentration lines are based on Phase 1 and Phase 2 Hydrogeology Investigation data, but have been updated with the most recent quarterly groundwater sampling data.

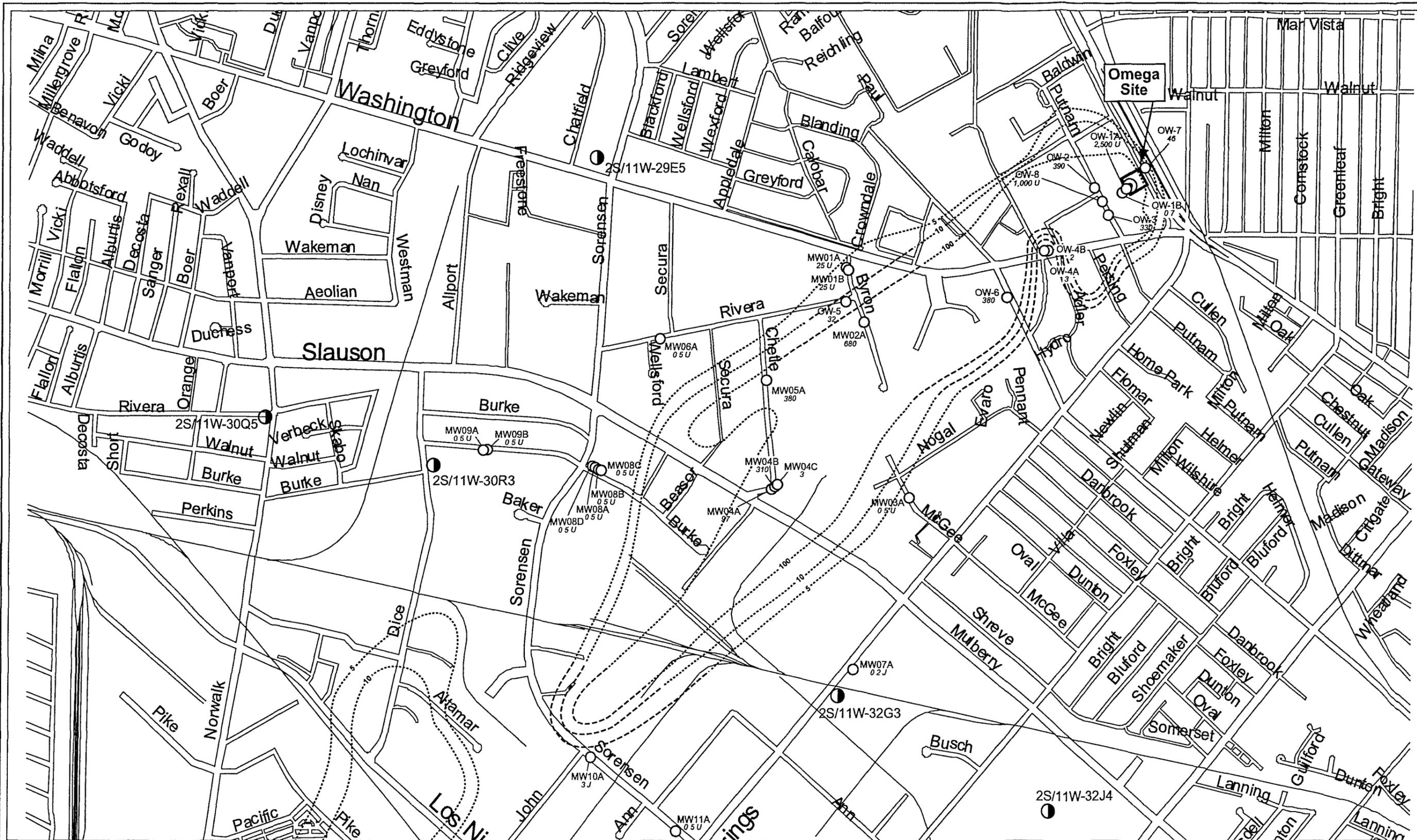
TCE Groundwater Concentrations—2nd Quarter 2002 Omega Superfund Site



- Existing Monitoring Well and Number
- Production Well and Number
- Feon 113 Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data
- Isoconcentration Line Based Upon Phase 1 (Aug. 2001) and Phase 2 (Aug. 2002) Hydrogeology Investigation Data

Notes: 1) Concentrations in µg/L.
 2) Samples collected May 2002.
 3) The isoconcentration lines are based on Phase 1 and Phase 2 Hydrogeology Investigation data, but have been updated with the most recent quarterly groundwater sampling data.

Freon 113 Groundwater Concentrations—2nd Quarter 2002 Omega Superfund Site

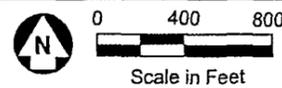
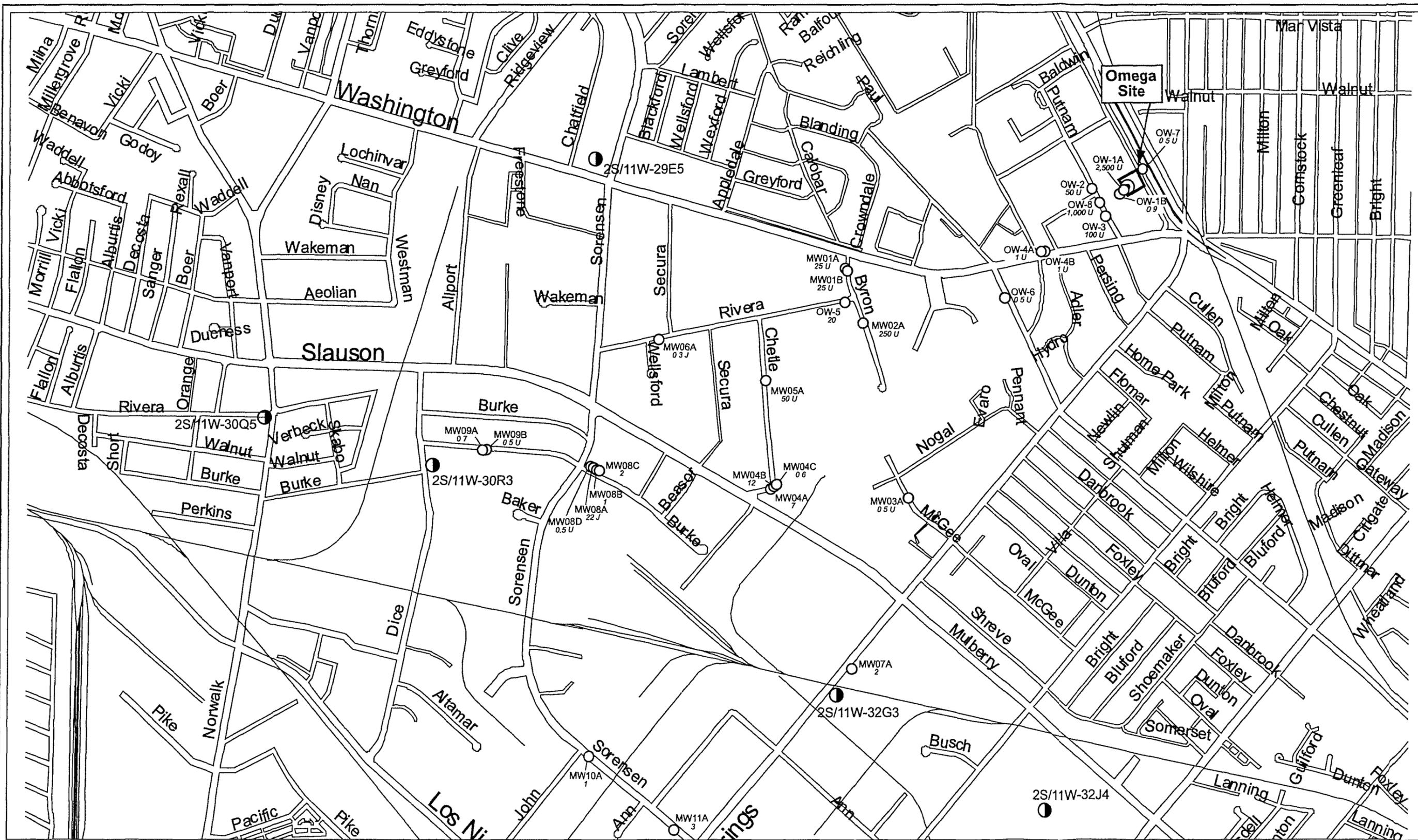


- Existing Monitoring Well and Number
- Production Well and Number
- - - Freon 11 Isoconcentration Line Based Upon Quarterly Groundwater Sampling Data
- Isoconcentration Line Based Upon Phase II Hydrogeology Investigation Data

- Notes:
- 1) Concentrations in µg/L.
 - 2) Samples collected May 2002.
 - 3) The isoconcentration lines are based on Phase II Hydrogeology investigation data, but have been updated with the most recent quarterly groundwater sampling data.

Freon 11 Groundwater Concentrations—2nd Quarter 2002

Omega Superfund Site



- Existing Monitoring Well and Number
- Production Well and Number

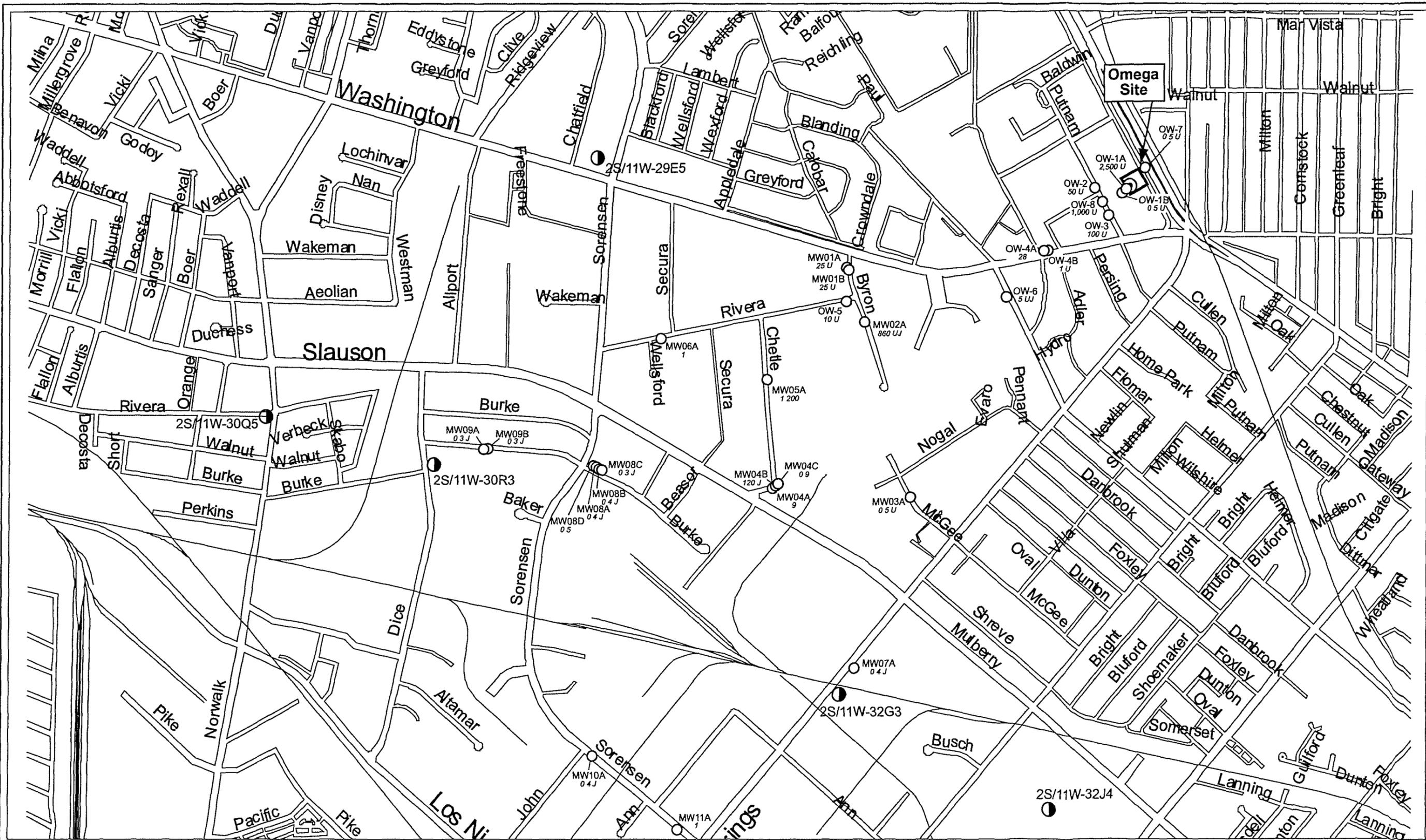
Notes: 1) Concentrations in $\mu\text{g/L}$.
 2) Samples collected May 2002.

Cis 1,2-DCE Groundwater Concentrations—2nd Quarter 2002
 Omega Superfund Site

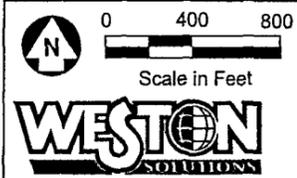
Figure

7

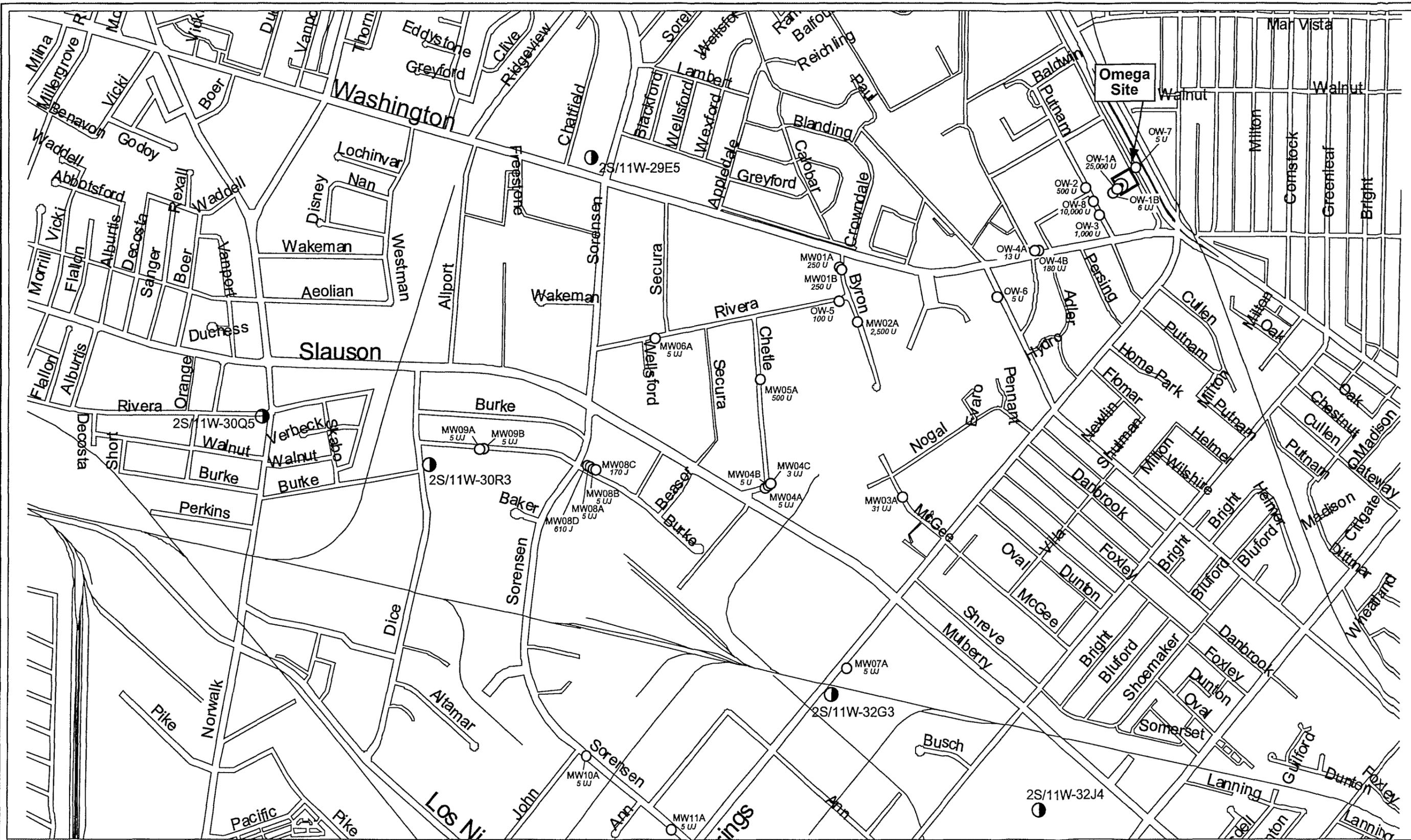




Chloroform Groundwater Concentrations—2nd Quarter 2002
 Omega Superfund Site

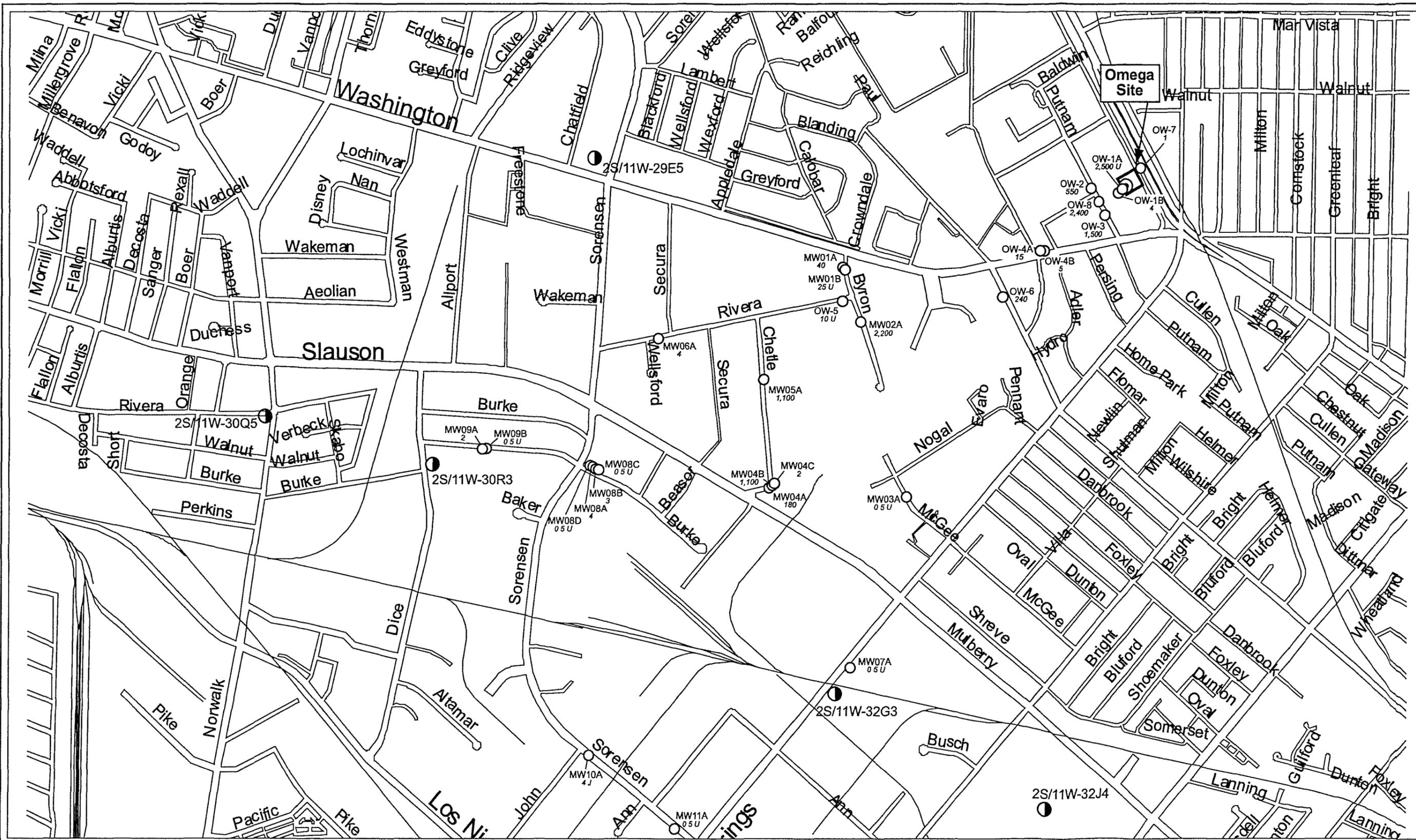


- Existing Monitoring Well and Number
 - Production Well and Number
- Notes: 1) Concentrations in µg/L.
 2) Samples collected May 2002.



○ Existing Monitoring Well and Number
 ● Production Well and Number
 Notes: 1) Concentrations in µg/L.
 2) Samples collected May 2002.

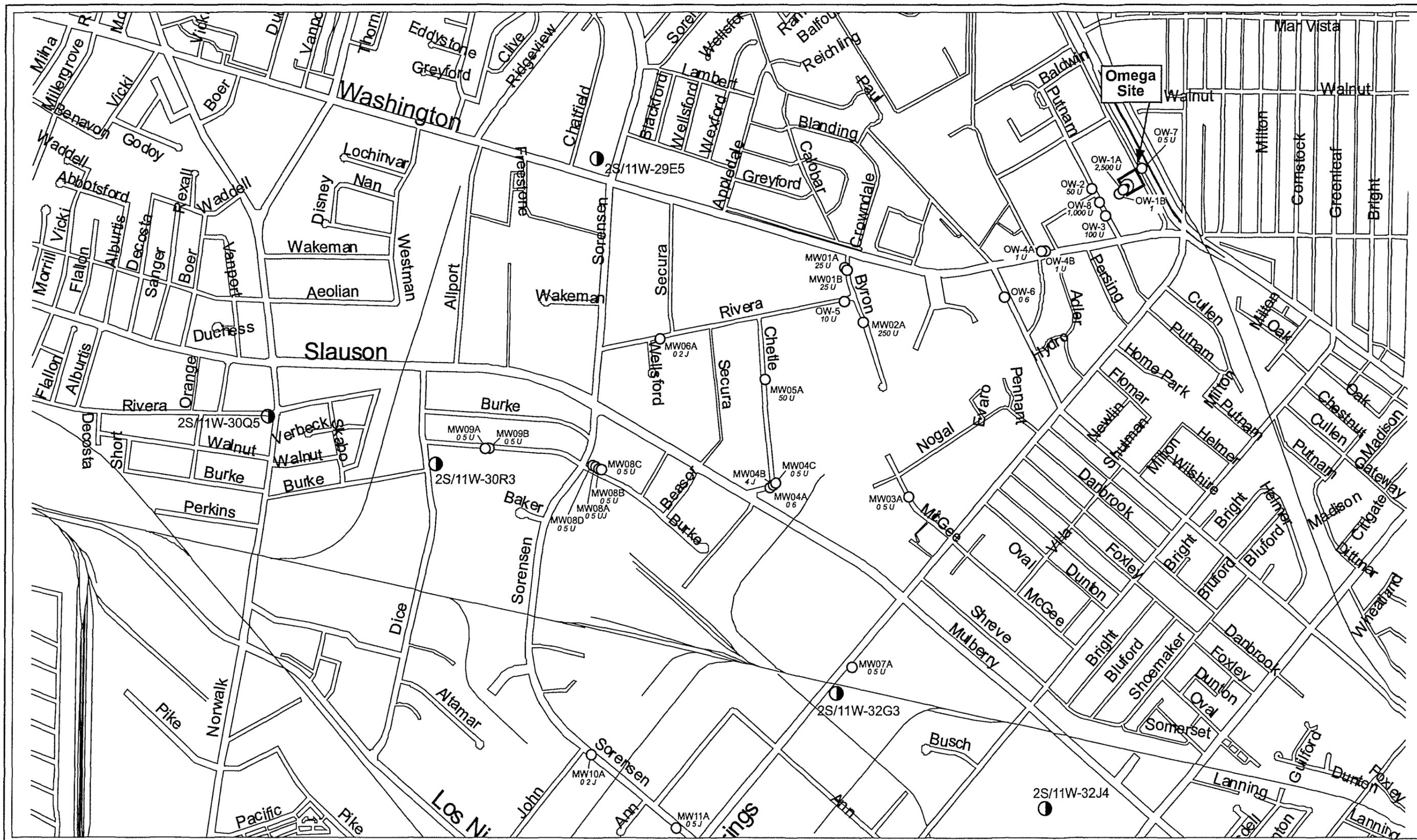
Acetone Groundwater Concentrations—2nd Quarter 2002
 Omega Superfund Site



1,1-Dichloroethene Groundwater Concentrations—2nd Quarter 2002
 Omega Superfund Site



- Existing Monitoring Well and Number
 - Production Well and Number
- Notes: 1) Concentrations in µg/L.
 2) Samples collected May 2002.



1,1-Dichloroethane Groundwater Concentrations—2nd Quarter 2002
 Omega Superfund Site



- Existing Monitoring Well and Number
 - Production Well and Number
- Notes: 1) Concentrations in $\mu\text{g/L}$.
 2) Samples collected May 2002.

APPENDIX A
ANALYTICAL DATA SUMMARY TABLE

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A	
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047	
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002	
Constituent	Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.7	
1,1,2,2-Tetrachloroethane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
1,1,2-Trichloroethane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
1,1-Dichloroethane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.6	
1,1-Dichloroethene	40	25 U/	21	2200	0.5 U/	180	
1,2,3-Trichlorobenzene	25 U/	25 U/	10 U/	250 U/	0.5 U/J	0.5 U/J	
1,2,4-Trichlorobenzene	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
1,2-Dibromo-3-chloropropane	25 U/	25 U/	10 U/	250 U/	0.5 U/J	0.5 U/	
1,2-Dibromoethane [EDB]	25 U/	25 U/	10 U/	250 U/	0.5 U/J	0.5 U/	
1,2-Dichlorobenzene	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
1,2-Dichloroethane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
1,2-Dichloropropane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
1,3-Dichlorobenzene	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
1,4-Dichlorobenzene	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
2-Butanone	250 U/	250 U/	100 U/	2500 U/	5 U/	5 U/J	
2-Hexanone	250 U/	250 U/	100 U/	2500 U/	5 U/	5 U/	
4-Methyl-2-pentanone	250 U/	250 U/	100 U/	2500 U/	5 U/	5 U/	
Acetone	250 U/	250 U/	100 U/	2500 U/	31 U/J	5 U/J	
Benzene	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/J	
Bromochloromethane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
Bromodichloromethane	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
Bromoform	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	
Bromomethane	25 U/J	25 U/J	10 U/	250 U/J	0.5 U/	0.5 U/	
Carbon Disulfide	25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/	

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A	
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047	
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002	
Constituent	Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
Carbon Tetrachloride		25 U/	25 U/	31	250 U/	0.5 U/	0.5 U/
Chlorobenzene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Chlorodibromomethane		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Chloroethane		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Chloroform		25 U/	25 U/	180	860 U/J	0.5 U/	9
Chloromethane		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
cis-1,2-Dichloroethene		25 U/	25 U/	10 U/	250 U/	0.5 U/	7
cis-1,3-Dichloropropene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Cyclohexane		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/J
Dichlorodifluoromethane		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Ethylbenzene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Isopropylbenzene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Methyl Acetate		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Methylcyclohexane		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Methylene Chloride		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Styrene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
tert-Butyl Methyl Ether		25 U/	25 U/	10 U/	250 U/	0.5 U/J	0.5 U/
Tetrachloroethene		45	29	27	3800	0.2 L/J	260
Toluene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
trans-1,2-Dichloroethene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
trans-1,3-Dichloropropene		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Trichloroethene		440	210	200	830	0.5 U/	440
Trichlorofluoromethane		25 U/	25 U/	10 U/	680	0.5 U/	97
Trichlorotrifluoroethane		25 U/	25 U/	10 U/	1900	0.5 U/	290
Vinyl Chloride		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A	
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047	
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002	
Constituent	Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
Xylenes (total)		25 U/	25 U/	10 U/	250 U/	0.5 U/	0.5 U/
Semi-Volatile Organic Compounds (ug/l)							
1,1'-Biphenyl		5 U		5 UJ	5 UJ	5 U	5 U
1,2,4,5 Tetrachlorobenzene		5 U		5 UJ	5 UJ	5 U	5 U
2,2-oxybis(1-Chloropropane)		5 U		5 UJ	5 U	5 U	5 U
2,4,5-Trichlorophenol		20 U		20 UJ	20 UJ	20 U	20 U
2,4,6-Trichlorophenol		5 U		5 UJ	5 UJ	5 U	5 U
2,4-Dichlorophenol		5 U		5 UJ	5 UJ	5 U	5 U
2,4-Dimethylphenol		5 U		5 UJ	5 U	5 UJ	5 U
2,4-Dinitrophenol		20 U		20 UJ	20 U	20 U	20 U
2,4-Dinitrotoluene		5 U		5 UJ	5 U	5 U	5 U
2,6-Dinitrotoluene		5 U		5 UJ	5 U	5 U	5 U
2-Chloronaphthalene		5 U		5 UJ	5 UJ	5 U	5 U
2-Chlorophenol		5 U		5 UJ	5 U	5 U	5 U
2-Methylnaphthalene		5 U		5 UJ	5 UJ	5 U	5 U
2-Methylphenol		5 U		5 UJ	5 U	5 UJ	5 U
2-Nitroaniline		20 U		20 UJ	20 U	20 U	20 U
2-Nitrophenol		5 U		5 UJ	5 U	5 U	5 U
3,3-Dichlorobenzidine		5 U		5 UJ	5 U	5 UJ	5 UJ
3-Nitroaniline		20 U		20 UJ	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol		20 U		20 UJ	20 U	20 U	20 U
4-Bromophenyl-phenylether		5 U		5 UJ	5 UJ	5 U	5 U
4-Chloro-3-methylphenol		5 U		5 UJ	5 UJ	5 U	5 U
4-Chloroaniline		5 U		5 UJ	5 U	5 UJ	5 U
4-Chlorophenyl-phenylether		5 U		5 UJ	5 UJ	5 U	5 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A	
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047	
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002	
Constituent	Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
4-Methylphenol		5 U		5 UJ	5 U	5 UJ	5 U
4-Nitroaniline		20 U		20 UJ	20 U	20 U	20 U
4-Nitrophenol		20 U		20 UJ	20 U	20 U	20 U
Acenaphthene		5 U		5 UJ	5 UJ	5 U	5 U
Acenaphthylene		5 U		5 UJ	5 UJ	5 U	5 U
Acetophenone		5 U		5 UJ	5 U	5 U	5 U
Anthracene		5 U		5 UJ	5 U	5 U	5 U
Atrazine		5 U		5 UJ	5 U	5 UJ	5 UJ
Benzaldehyde		5 U		5 UJ	5 U	5 U	5 U
Benzo (g,h,i) perylene		5 U		5 UJ	5 U	5 UJ	5 U
Benzo(a)anthracene		5 U		5 UJ	5 U	5 U	5 U
Benzo(a)pyrene		5 U		5 UJ	5 U	5 UJ	5 U
Benzo(b)fluoranthene		5 U		5 UJ	5 U	5 UJ	5 U
Benzo(k)fluoranthene		5 U		5 UJ	5 U	5 UJ	5 U
bis(2-Chloroethoxy)methane		5 U		5 UJ	5 U	5 U	5 U
bis(2-Chloroethyl)ether		5 U		5 UJ	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate		5 UJ		5 UJ	5 U	5 U	5 U
Butylbenzylphthalate		5 U		5 UJ	5 UJ	5 U	5 U
Caprolactam		5 U		5 UJ	5 UJ	5 U	5 U
Chrysene		5 U		5 UJ	5 U	5 U	5 U
Di-n-butylphthalate		5 U		5 UJ	5 UJ	1 J	5 U
Di-n-octylphthalate		5 U		5 UJ	5 UJ	5 U	5 U
Dibenzo (a,h) - anthracene		5 U		5 UJ	5 U	5 UJ	5 U
Dibenzofuran		5 U		5 UJ	5 UJ	5 U	5 U
Diethylphthalate		5 U		5 UJ	5 UJ	5 U	5 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A	
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047	
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002	
Constituent	Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
Dimethylphthalate		5 U		5 UJ	5 UJ	5 U	5 U
Fluoranthene		5 U		5 UJ	5 U	5 U	5 U
Fluorene		5 U		5 UJ	5 UJ	5 U	5 U
Hexachlorobenzene		5 U		5 UJ	5 U	5 U	5 U
Hexachlorobutadiene		5 U		5 UJ	5 UJ	5 U	5 U
Hexachlorocyclopentadiene		5 U		5 UJ	5 U	5 UJ	5 U
Hexachloroethane		5 U		5 UJ	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene		5 U		5 UJ	5 U	5 UJ	5 U
Isophorone		5 U		5 UJ	5 U	5 U	5 U
N-Nitroso-di-n-propylamine		5 U		5 UJ	5 U	5 U	5 U
N-Nitrosodiphenylamine		5 U		5 UJ	5 U	5 U	5 U
Naphthalene		5 U		5 UJ	5 UJ	5 U	5 U
Nitrobenzene		5 U		5 UJ	5 U	5 U	5 U
Pentachlorophenol		5 U		5 UJ	5 UJ	5 U	5 U
Phenanthrene		5 U		5 UJ	5 U	5 U	5 U
Phenol		5 U		5 UJ	5 U	5 U	5 U
Pyrene		5 U		5 UJ	5 U	5 U	5 U
Pesticides/PCBs (ug/l)							
4,4-DDD		0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ
4,4-DDE		0.02 U	0.02 U				
4,4-DDT		0.02 U	0.02 U				
Aldrin		0.01 U	0.01 U				
alpha-BHC		0.01 U	0.01 U				
alpha-Chlordane		0.01 U	0.01 U				
Aroclor-1016		0.2 U	0.2 U				

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002
Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
Constituent						
Aroclor-1221	0.4 U					
Aroclor-1232	0.2 U					
Aroclor-1242	0.2 U					
Aroclor-1248	0.2 U					
Aroclor-1254	0.2 U					
Aroclor-1260	0.2 U					
beta-BHC	0.01 U					
delta-BHC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ
Dieldrin	0.02 U					
Endosulfan I	0.01 U					
Endosulfan II	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ
Endosulfan sulfate	0.02 U					
Endrin	0.02 U					
Endrin aldehyde	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ
Endrin ketone	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ
gamma-BHC (Lindane)	0.01 U					
gamma-Chlordane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ
Heptachlor	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ
Heptachlor epoxide	0.01 U					
Methoxychlor	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Toxaphene	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane						
Perchlorate	3	2	3	7	1/J	3

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A	
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047	
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002	
Constituent	Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
Inorganics (Total) (ug/l)							
Aluminum		277 U	230 U	299 U	234 U	216	201
Antimony		3.8 U	3.8 U				
Arsenic		3.5	3.0 U	3.0	3.0 U	9.5	3.0 U
Barium		66.1 J	43.7 J	45.1 J	55.6 J	38.5	46.2
Beryllium		0.30 U	0.30 U				
Cadmium		0.50 U	0.68	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		114000	113000	114000	158000	129000	171000
Chromium		59.7	23.6	23.6	8.5	0.80 U	40.6
Cobalt		1.2 U	1.2 U				
Copper		1.4 U	1.4 U				
Cyanide		1.8	0.70 U	0.70 U	0.70 U	0.87 U	1.9 U
Iron		80.6 U	18.6 U	42.4 U	29.6 U	395	20.6
Lead		2.8 U	2.8 U				
Magnesium		37300	38200	38300	47000	42400	52300
Manganese		0.69	16.9	17.6	0.40 U	141	0.40 U
Mercury		0.10 U	0.10 U	0.11	0.10 U	0.10 U	0.10 U
Nickel		1.7 U	1.7 U	1.7 U	1.7 U	2.0	1.7 U
Potassium		3060	4730	4780	3260	3840	3650
Selenium		3.3	2.9	2.2 U	3.8	2.2 U	9.0
Silver		1.1 U	1.1 U				
Sodium		78800	65900	66200	74800	161000	128000
Thallium		3.5 U	3.5 U				
Vanadium		5.7	4.7	5.2	4.9	3.5	4.4
Zinc		1.4 U	14.9	14.1	1.4 U	2.0	1.4 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW01A	MW01B	MW01B	MW02A	MW03A	MW04A	
Sample ID:	GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW02A-0055	GW202-MW03A-0042	GW202-MW04A-0047	
Sample Date:	05/28/2002	05/28/2002	05/28/2002	05/28/2002	05/21/2002	05/21/2002	
Constituent	Depth (feet):	55 to N/A	80 to N/A	80 to N/A	55 to N/A	42 to N/A	47 to N/A
Inorganics (Dissolved) (ug/l)							
Aluminum		162	176	220	183	220	185
Antimony		3.8 U	3.8 U				
Arsenic		3.5	3.6	3.6	3.0 U	8.1	3.0 U
Barium		65.9	43.9	43.6	54.4	36.9	47.2
Beryllium		0.30 U	0.30 U				
Cadmium		0.50 U	0.50 U				
Calcium		114000	116000	115000	158000	133000	174000
Chromium		60.5	24.0	22.4	9.1	0.80 U	42.3
Cobalt		1.2 U	1.2 U				
Copper		2.8	2.6	1.7	3.2	1.8 U	2.8 U
Iron		17.0 U	17.0 U	22.4	21.7	450	18.1
Lead		2.8 U	2.8 U				
Magnesium		37100	39200	38600	47200	43700	52800
Manganese		0.40 U	15.2	14.5	0.40 U	153	0.54
Mercury		0.10 U	0.10 U				
Nickel		1.7 U	2.0	1.7 U	1.7 U	3.7	2.7
Potassium		3060	4750	4660	3150	3950	3660
Selenium		4.0	3.4	4.6	6.5	2.2 U	7.9 U
Silver		1.1 U	1.4				
Sodium		79100	66300	65400	73300	168000	131000
Thallium		3.5 U	3.5 U				
Vanadium		5.3	4.8	4.4	4.7	3.6	4.5
Zinc		15.2	18.7	3.4	10.6	1.4 U	7.5

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A	
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041	
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002	
Constituent	Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane	7	7	0.5 U/	50 U/	0.5 U/	0.5 U/	
1,1,2,2-Tetrachloroethane	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
1,1,2-Trichloroethane	0.6	0.8	0.5 U/	50 U/	0.5 U/	0.5 U/	
1,1-Dichloroethane	4/J	4	0.5 U/	50 U/	0.2 L/J	0.5 U/	
1,1-Dichloroethene	1100	1300	2	1100	4	0.5 U/	
1,2,3-Trichlorobenzene	0.5 U/J	0.5 U/J	0.5 U/J	50 U/	0.5 U/J	0.5 U/J	
1,2,4-Trichlorobenzene	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/J	0.5 U/	
1,2-Dibromo-3-chloropropane	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/J	0.5 U/	
1,2-Dibromoethane [EDB]	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
1,2-Dichlorobenzene	0.5 U/	0.5 U/	0.5 U/	50 U/	0.2 L/J	0.5 U/	
1,2-Dichloroethane	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
1,2-Dichloropropane	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
1,3-Dichlorobenzene	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
1,4-Dichlorobenzene	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
2-Butanone		5 U/	5 U/	500 U/	5 U/J	5 U/J	
2-Hexanone	5 U/	5 U/	5 U/	500 U/	5 U/	5 U/	
4-Methyl-2-pentanone	5 U/	5 U/	5 U/	500 U/	5 U/	5 U/	
Acetone		5 U/JD	3 U/J	500 U/	5 U/J	5 U/J	
Benzene	4	4	0.5 U/	50 U/	0.5 U/	0.5 U/	
Bromochloromethane		0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
Bromodichloromethane	0.2 L/J	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
Bromoform	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
Bromomethane	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	
Carbon Disulfide	0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/	

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A	
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041	
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002	
Constituent	Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A
Carbon Tetrachloride		0.3 L/J	0.3 L/J	0.5 U/	180	0.5 U/	0.5 U/
Chlorobenzene		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Chlorodibromomethane		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Chloroethane		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Chloroform		120 /J	120	0 9	1200	1	0.4 L/J
Chloromethane		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
cis-1,2-Dichloroethene		12	12	0.6	50 U/	0.3 L/J	2
cis-1,3-Dichloropropene		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Cyclohexane		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/J
Dichlorodifluoromethane		2	2	0.5 U/	50 U/	0.5 U/	0.5 U/
Ethylbenzene		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Isopropylbenzene		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Methyl Acetate		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Methylcyclohexane		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Methylene Chloride		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Styrene		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
tert-Butyl Methyl Ether		4 /J	4 /J	0.5 U/J	50 U/	0.5 U/	0.5 U/
Tetrachloroethene		900 /J	950 /J	10 /J	1400	310	47
Toluene		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
trans-1,2-Dichloroethene		0.8	0.8	0.5 U/	50 U/	0.5 U/	0.5 U/
trans-1,3-Dichloropropene		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Trichloroethene		480	480	64	830	4	20
Trichlorofluoromethane		310	400	3	380	0.5 U/	0.2 L/J
Trichlorotrifluoroethane		920	1200	9	1100	0.6	3
Vinyl Chloride		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A	
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041	
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002	
Constituent	Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A
Xylenes (total)		0.5 U/	0.5 U/	0.5 U/	50 U/	0.5 U/	0.5 U/
Semi-Volatile Organic Compounds (ug/l)							
1,1'-Biphenyl		5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5 Tetrachlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
2,2-oxybis(1-Chloropropane)		5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol		20 U	20 U				
2,4,6-Trichlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol		20 U	20 U				
2,4-Dinitrotoluene		5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene		5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene		5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene		5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline		20 U	20 U				
2-Nitrophenol		5 U	5 U	5 U	5 U	5 U	5 U
3,3-Dichlorobenzidine		5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 UJ
3-Nitroaniline		20 U	20 U				
4,6-Dinitro-2-methylphenol		20 UJ	20 U	20 UJ	20 U	20 UJ	20 U
4-Bromophenyl-phenylether		5 U	5 U	5 U	5 U	5 U	5 U
4-Chloro-3-methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
4-Chloroaniline		5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl-phenylether		5 U	5 U	5 U	5 U	5 U	5 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A	
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041	
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002	
Constituent	Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A
4-Methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
4-Nitroaniline		20 U	20 U				
4-Nitrophenol		20 U	20 U				
Acenaphthene		5 U	5 U	5 U	5 U	5 U	5 U
Acenaphthylene		5 U	5 U	5 U	5 U	5 U	5 U
Acetophenone		5 U	5 U	5 U	5 U	5 U	5 U
Anthracene		5 U	5 U	5 U	5 U	5 U	5 U
Atrazine		5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 UJ
Benzaldehyde		5 U	5 U	5 U	1.3 J	5 U	5 U
Benzo (g,h,i) perylene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene		5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethoxy)methane		5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethyl)ether		5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate		5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate		5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam		5 U	5 U	5 U	5 U	5 U	5 U
Chrysene		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octylphthalate		5 U	5 U	5 U	5 U	5 U	5 U
Dibenzo (a,h) - anthracene		5 U	5 U	5 U	5 U	5 U	5 U
Dibenzofuran		5 U	5 U	5 U	5 U	5 U	5 U
Diethylphthalate		5 U	5 U	5 U	5 U	5 U	5 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A	
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041	
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002	
Constituent	Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A
Dimethylphthalate		5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene		5 U	5 U	5 U	5 U	5 U	5 U
Fluorene		5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene		5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene		5 U	5 U	5 U	5 U	5 U	5 U
Hexachloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene		5 U	5 U	5 U	5 U	5 U	5 U
Isophorone		5 U	5 U	5 U	5 U	5 U	5 U
N-Nitroso-di-n-propylamine		5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine		5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene		5 U	5 U	5 U	5 U	5 U	5 U
Nitrobenzene		5 U	5 U	5 U	5 U	5 U	5 U
Pentachlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene		5 U	5 U	5 U	5 U	5 U	5 U
Phenol		5 U	5 U	5 U	5 U	5 U	5 U
Pyrene		5 U	5 U	5 U	5 U	5 U	5 U
Pesticides/PCBs (ug/l)							
4,4-DDD		0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 UJ	0.02 UJ
4,4-DDE		0.02 U	0.02 U				
4,4-DDT		0.02 U	0.02 U				
Aldnn		0.01 U	0.01 U				
alpha-BHC		0.01 U	0.01 U				
alpha-Chlordane		0.01 U	0.01 U				
Aroclor-1016		0.2 U	0.2 U				

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A	
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041	
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002	
Constituent	Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A
Aroclor-1221		0.4 U	0.4 U				
Aroclor-1232		0.2 U	0.2 U				
Aroclor-1242		0.2 U	0.2 U				
Aroclor-1248		0.2 U	0.2 U				
Aroclor-1254		0.2 U	0.2 U				
Aroclor-1260		0.2 U	0.2 U				
beta-BHC		0.01 U	0.01 U				
delta-BHC		0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 UJ	0.01 UJ
Dieldrin		0.02 U	0.02 U				
Endosulfan I		0.01 U	0.01 U				
Endosulfan II		0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 UJ	0.02 UJ
Endosulfan sulfate		0.02 U	0.02 U				
Endrin		0.02 U	0.02 U				
Endrin aldehyde		0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 UJ	0.02 UJ
Endrin ketone		0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 UJ	0.02 UJ
gamma-BHC (Lindane)		0.01 U	0.01 U				
gamma-Chlordane		0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 UJ	0.01 UJ
Heptachlor		0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 UJ	0.01 UJ
Heptachlor epoxide		0.01 U	0.01 U				
Methoxychlor		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ
Toxaphene		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane							
Perchlorate		6	6	3	4	4	5

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A	
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041	
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002	
Constituent	Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A
Inorganics (Total) (ug/l)							
Aluminum		271	208	258	261 U	262 U	299
Antimony		3.8 U	3.8 U				
Arsenic		3.0 U	6.7				
Barium		56.8	56.9	57.8	54.1 J	48.7 J	28.6
Beryllium		0.30 U	0.95				
Cadmium		0.50 U	0.64				
Calcium		158000	158000	162000	153000	207000	298000
Chromium		49.5	49.0	17.9	13.5	76.4	0.93
Cobalt		1.2 U	1.2 U				
Copper		1.4 U	1.4 U	1.4 U	1.4	1.4 U	1.8
Cyanide		0.70 UJ	1.0 U	1.3 U	0.70 U	0.70 U	1.4 U
Iron		64.9	17.0 U	60.7	45.1 U	57.9 U	137
Lead		2.8 U	2.8 U				
Magnesium		43500	43400	47100	43800	54500	92800
Manganese		6.8	4.3	4.4	0.40 U	0.82	1.7
Mercury		0.10 U	0.10 U				
Nickel		1.7 U	1.7 U				
Potassium		4450	4530	5160	4000	5030	6080
Selenium		8.1	5.1	8.4	2.2 U	10.3	27.0
Silver		1.1 U	1.1 U				
Sodium		84800	85800	88200	81400	126000	201000
Thallium		3.5 U	3.5 U				
Vanadium		4.7	5.3	5.3	4.4	2.9	4.2
Zinc		1.8	12.7	2.9	2.3	1.4 U	20.0

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW04B	MW04B	MW04C	MW05A	MW06A	MW07A
Sample ID:	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW05A-0049	GW202-MW06A-0042	GW202-MW07A-0041
Sample Date:	05/22/2002	05/22/2002	05/22/2002	05/28/2002	05/24/2002	05/21/2002
Constituent Depth (feet):	75 to N/A	75 to N/A	94 to N/A	49 to N/A	42 to N/A	41 to N/A

Inorganics (Dissolved) (ug/l)						
Aluminum	194	472	193	208	176	208
Antimony	3.8 U					
Arsenic	3.0 U	3.0 U	3.6	4.2	3.0 U	3.0 U
Barium	55.8	60.0	57.2 J	52.6	48.6	28.6 J
Beryllium	0.30 U					
Cadmium	0.50 U					
Calcium	155000	161000	163000	155000	205000	309000
Chromium	48.8	50.8	18.0	13.6	74.1	0.80 U
Cobalt	1.2 U					
Copper	1.4 U	2.9 U	2.4 U	2.5	2.5	2.0 U
Iron	17.0 U	387	17.0 U	25.7	17.0 U	17.0 U
Lead	2.8 U					
Magnesium	42500	44400	47200	44300	53000	96900
Manganese	4.3	25.3	2.4	0.40 U	0.40 U	0.40 U
Mercury	0.10 U	0.20	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	1.7 U					
Potassium	4360	4620	5080	3890	5000	6210
Selenium	3.8 U	6.2 U	8.0 U	5.9	13.9	30.7
Silver	1.1 U					
Sodium	84000	87700	89000	81000	125000	205000
Thallium	3.5 U					
Vanadium	4.7	5.8	5.3	4.2	2.8	4.0
Zinc	4.6	1.8	15.6	10.5	9.4	21.1

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B	
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054	
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002	
Constituent	Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane	0.5 U/						
1,1,2,2-Tetrachloroethane	0.5 U/						
1,1,2-Trichloroethane	0.5 U/						
1,1-Dichloroethane	0.5 U/J	0.5 U/					
1,1-Dichloroethene	4	3	0.5 U/	0.5 U/	2	0.5 U/	
1,2,3-Trichlorobenzene	0.5 U/J						
1,2,4-Trichlorobenzene	0.5 U/	0.5 U/	0.5 U/	0.5 U/	0.5 U/J	0.5 U/J	
1,2-Dibromo-3-chloropropane	0.5 U/J						
1,2-Dibromoethane [EDB]	0.5 U/	0.5 U/J	0.5 U/	0.5 U/J	0.5 U/	0.5 U/	
1,2-Dichlorobenzene	0.5 U/						
1,2-Dichloroethane	0.5 U/						
1,2-Dichloropropane	0.5 U/						
1,3-Dichlorobenzene	0.5 U/						
1,4-Dichlorobenzene	0.5 U/						
2-Butanone	5 U/J	5 U/	5 U/J	5 U/	5 U/J	5 U/J	
2-Hexanone	5 U/						
4-Methyl-2-pentanone	0.9 L/J	5 U/					
Acetone	5 U/J	5 U/J	170/J	610/J	5 U/J	5 U/J	
Benzene	0.5 U/						
Bromochloromethane	0.5 U/J	0.5 U/					
Bromodichloromethane	0.2 L/J	0.5 U/					
Bromoform	0.5 U/						
Bromomethane	0.5 U/						
Carbon Disulfide	0.5 U/						

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B	
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054	
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002	
Constituent	Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
Carbon Tetrachloride		0.5 U/	0.5 U/				
Chlorobenzene		0.5 U/	0.5 U/				
Chlorodibromomethane		0.6	0.5 U/	0.5 U/	0.5 U/	0.5 U/	0.5 U/
Chloroethane		0.5 U/	0.5 U/				
Chloroform		0.4 L/J	0.4 L/J	0.3 L/J	0.5	0.3 L/J	0.3 L/J
Chloromethane		0.5 U/J	0.5 U/	0.5 U/J	0.5 U/	0.5 U/	0.5 U/
cis-1,2-Dichloroethene		22/J	1	2	0.5 U/	0.7	0.5 U/
cis-1,3-Dichloropropene		0.4 L/J	0.5 U/	0.5 U/	0.5 U/	0.5 U/	0.5 U/
Cyclohexane		0.5 U/J	0.5 U/	0.5 U/J	0.5 U/	0.5 U/	0.5 U/
Dichlorodifluoromethane		0.5 U/	0.5 U/				
Ethylbenzene		0.5 U/	0.5 U/	0.2 L/J	0.5 U/	0.5 U/	0.5 U/
Isopropylbenzene		0.5 U/	0.5 U/				
Methyl Acetate		0.5 U/	0.5 U/				
Methylcyclohexane		0.5 U/	0.5 U/				
Methylene Chloride		0.5 U/	0.5 U/	0.5 U/	0.5 U/J	0.5 U/	0.5 U/
Styrene		0.5 U/	0.5 U/				
tert-Butyl Methyl Ether		0.2 L/J	0.5 U/J	0.5 U/	0.5 U/J	1	2
Tetrachloroethene		430	9	11	0.7	89	20
Toluene		0.5 U/	0.5 U/				
trans-1,2-Dichloroethene		0.2 L/J	0.5 U/	0.5 U/	0.5 U/	0.5 U/	0.5 U/
trans-1,3-Dichloropropene		0.5 U/	0.5 U/				
Trichloroethene		96	2	3	15	7	2
Trichlorofluoromethane		0.5 U/	0.5 U/				
Trichlorotrifluoroethane		0.5 U/	0.2 L/J	0.2 L/J	0.5 U/	0.5 U/	0.3 L/J
Vinyl Chloride		0.5 U/	0.5 U/				

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B	
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054	
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002	
Constituent	Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
Xylenes (total)		0.5 U/	0.5 U/	0.8	0.7	0.5 U/	0.5 U/
Semi-Volatile Organic Compounds (ug/l)							
1,1'-Biphenyl		5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5 Tetrachlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
2,2-oxybis(1-Chloropropane)		5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol		20 U	20 U				
2,4,6-Trichlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol		20 U	20 U				
2,4-Dinitrotoluene		5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene		5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene		5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene		5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline		20 U	20 U				
2-Nitrophenol		5 U	5 U	5 U	5 U	5 U	5 U
3,3-Dichlorobenzidine		5 UJ	5 UJ				
3-Nitroaniline		20 U	20 U				
4,6-Dinitro-2-methylphenol		20 UJ	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl-phenylether		5 U	5 U	5 U	5 U	5 U	5 U
4-Chloro-3-methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
4-Chloroaniline		5 U	5 U	5 UJ	5 U	5 U	5 U
4-Chlorophenyl-phenylether		5 U	5 U	5 U	5 U	5 U	5 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B	
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054	
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002	
Constituent	Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
4-Methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
4-Nitroaniline		20 U	20 U				
4-Nitrophenol		20 U	20 U				
Acenaphthene		5 U	5 U	5 U	5 U	5 U	5 U
Acenaphthylene		5 U	5 U	5 U	5 U	5 U	5 U
Acetophenone		5 U	5 U	5 U	5 U	5 U	5 U
Anthracene		5 U	5 U	5 U	5 U	5 U	5 U
Atrazine		5 UJ	5 UJ				
Benzaldehyde		5 U	5 U	5 U	5 U	5 U	5 U
Benzo (g,h,i) perylene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene		5 U	5 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene		5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethoxy)methane		5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Chloroethyl)ether		5 U	5 U	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate		5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate		5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam		5 U	5 U	5 U	5 U	5 U	5 U
Chrysene		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octylphthalate		5 U	5 U	5 U	5 U	5 U	5 U
Dibenzo (a,h) - anthracene		5 U	5 U	5 U	5 U	5 U	5 U
Dibenzofuran		5 U	5 U	5 U	5 U	5 U	5 U
Diethylphthalate		5 U	5 U	5 U	5 U	5 U	5 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B	
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054	
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002	
Constituent	Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
Dimethylphthalate		5U	5U	5U	5U	5U	5U
Fluoranthene		5U	5U	5U	5U	5U	5U
Fluorene		5U	5U	5U	5U	5U	5U
Hexachlorobenzene		5U	5U	5U	5U	5U	5U
Hexachlorobutadiene		5U	5U	5U	5U	5U	5U
Hexachlorocyclopentadiene		5U	5U	5UJ	5U	5U	5U
Hexachloroethane		5U	5U	5U	5U	5U	5U
Indeno(1,2,3-cd)pyrene		5U	5U	5U	5U	5U	5U
Isophorone		5U	5U	5U	5U	5U	5U
N-Nitroso-di-n-propylamine		5U	5U	5U	5U	5U	5U
N-Nitrosodiphenylamine		5U	5U	5U	5U	5U	5U
Naphthalene		5U	5U	5U	5U	5U	5U
Nitrobenzene		5U	5U	5U	5U	5U	5U
Pentachlorophenol		5U	5U	5U	5U	5U	5U
Phenanthrene		5U	5U	5U	5U	5U	5U
Phenol		5U	5U	5U	5U	5U	5U
Pyrene		5U	5U	5U	5U	5U	5U
Pesticides/PCBs (ug/l)							
4,4-DDD		0.02 UJ	0.02 UJ				
4,4-DDE		0.02 U	0.02 U				
4,4-DDT		0.02 U	0.02 U				
Aldrin		0.01 U	0.01 U				
alpha-BHC		0.01 U	0.01 U				
alpha-Chlordane		0.01 U	0.01 UJ	0.01 U	0.01 UJ	0.01 U	0.01 U
Aroclor-1016		0.2 U	0.2 U				

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002
Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
Aroclor-1221	0.4 U					
Aroclor-1232	0.2 U					
Aroclor-1242	0.2 U					
Aroclor-1248	0.2 U					
Aroclor-1254	0.2 U					
Aroclor-1260	0.2 U					
beta-BHC	0.01 U					
delta-BHC	0.01 UJ					
Dieldrin	0.02 U					
Endosulfan I	0.01 U					
Endosulfan II	0.02 UJ					
Endosulfan sulfate	0.02 U					
Endrin	0.02 U					
Endrin aldehyde	0.02 UJ					
Endrin ketone	0.02 UJ					
gamma-BHC (Lindane)	0.01 U					
gamma-Chlordane	0.01 UJ					
Heptachlor	0.01 UJ					
Heptachlor epoxide	0.01 U					
Methoxychlor	0.1 UJ					
Toxaphene	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane						
Perchlorate	4	4	2	2 U	2 U	4

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B	
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054	
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002	
Constituent	Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
Inorganics (Total) (ug/l)							
Aluminum	334	260	304	241 U	323 U	269 U	
Antimony	3.8 U						
Arsenic	3.0 U	3.0 U	17.8	8.7	8.1	3.0 U	
Barium	76.3	26.7	26.5	89.6	34.7 J	31.9 J	
Beryllium	0.30 U						
Cadmium	0.50 U	0.50 U	0.50 U	0.50 U	0.82	0.50 U	
Calcium	212000	210000	193000	147000	170000	202000	
Chromium	72.0	5.0	1.7	0.80 U	0.80 U	4.2	
Cobalt	1.2 U						
Copper	1.4 U	1.4 U	1.6	1.6	1.5	1.4 U	
Cyanide	0.70 UJ	2.3 U	0.70 UJ	1.0 U	0.70 U	0.70 U	
Iron	217	17.0 U	410	63.6	180	54.0 U	
Lead	2.8 U						
Magnesium	56700	58300	52800	41700	59600	49700	
Manganese	1.8	0.40 U	402	488	826	0.69	
Mercury	0.10 U						
Nickel	1.7 U	1.7 U	1.7 U	1.7 U	2.3	1.7 U	
Potassium	6020	5790	6020	4470	10200	6010	
Selenium	80.6	5.6	3.7	6.6	2.2 U	5.4	
Silver	1.1 U						
Sodium	154000	108000	114000	62100	162000	107000	
Thallium	3.5 U						
Vanadium	3.0	3.7	2.9	1.3	2.8	2.7	
Zinc	1.4 U	1.4 U	10.9	3.2	1.4	1.4 U	

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW08A	MW08B	MW08C	MW08D	MW09A	MW09B	
Sample ID:	GW202-MW08A-0040	GW202-MW08B-0070	GW202-MW08C-0087	GW202-MW08D-0116	GW202-MW09A-0032	GW202-MW09B-0054	
Sample Date:	05/23/2002	05/23/2002	05/23/2002	05/23/2002	05/24/2002	05/24/2002	
Constituent	Depth (feet):	40 to N/A	70 to N/A	87 to N/A	116 to N/A	32 to N/A	54 to N/A
Inorganics (Dissolved) (ug/l)							
Aluminum	274	262	243	245	228 U	190	
Antimony	3.8 U						
Arsenic	3.0 U	3.0 U	17.1	11.0	9.7	3.0 U	
Barium	78.2	26.6	26.0	86.6	33.2	31.8	
Beryllium	0.30 U						
Cadmium	0.50 U						
Calcium	220000	207000	194000	146000	175000	205000	
Chromium	77.3	5.2	1.4 U	0.80 U	0.80 U	4.3	
Cobalt	1.2 U						
Copper	1.4	2.1 U	1.4 U	1.4 U	2.3	2.0	
Iron	17.0 U	18.1	347	63.2	139	17.0 U	
Lead	2.8 U	2.8 U	8.2	2.8 U	2.8 U	2.8 U	
Magnesium	59400	57100	53000	41800	62000	49900	
Manganese	0.40 U	0.40 U	396	495	845	0.40 U	
Mercury	0.10 U	0.17	0.10 U	0.10 U	0.10 U	0.10 U	
Nickel	1.7 U	1.7 U	1.7 U	1.7 U	2.8	1.7 U	
Potassium	6080	5680	5840	4310	9960	5950	
Selenium	88.4	6.2 U	4.1 U	5.5 U	2.9	6.3	
Silver	1.1 U						
Sodium	160000	108000	114000	61600	160000	106000	
Thallium	3.5 U						
Vanadium	2.8	3.9	3.1	1.5	2.3	2.5	
Zinc	1.4 U	2.5	2.3	3.2	1.4 U	3.3	

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane	0.5 U/J	0.5 U/	0.5 U/	3700	9	50 U/	
1,1,1,2-Tetrachloroethane	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,1,2-Trichloroethane	0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,1-Dichloroethane	0.2 L/J	0.5 L/J	0.5 U/	2500 U/	1	50 U/	
1,1-Dichloroethene	4 /J	0.5 U/	1	2500 U/	4	550	
1,2,3-Trichlorobenzene	0.5 U/J	0.5 U/J	0.5 U/	2500 U/	0.5 U/	50 U/	
1,2,4-Trichlorobenzene	0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,2-Dibromo-3-chloropropane	0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,2-Dibromoethane [EDB]	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,2-Dichlorobenzene	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,2-Dichloroethane	0.5 U/J	0.5 U/	0.5 U/	2500 U/	1	50 U/	
1,2-Dichloropropane	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,3-Dichlorobenzene	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
1,4-Dichlorobenzene	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
2-Butanone	5 U/J	5 U/	5 U/	25000 U/	5 U/	500 U/	
2-Hexanone	5 U/	5 U/	5 U/	25000 U/	5 U/	500 U/	
4-Methyl-2-pentanone	5 U/	5 U/	5 U/	25000 U/	5 U/	500 U/	
Acetone	5 U/J	5 U/J	5 U/	25000 U/	6 U/J	500 U/	
Benzene	0.5 U/	0.5 U/	0.5 U/	2500 U/	2	50 U/	
Bromochloromethane	0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
Bromodichloromethane	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
Bromoform	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	
Bromomethane	0.5 U/	0.5 U/	0.5 U/J	2500 U/	0.5 U/	50 U/	
Carbon Disulfide	0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/	

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
Carbon Tetrachloride		0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Chlorobenzene		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Chlorodibromomethane		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Chloroethane		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Chloroform		0.4 L/J	1	0.5 U/	2500 U/	0.5 U/	50 U/
Chloromethane		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
cis-1,2-Dichloroethene		1	3	0.5 U/	2500 U/	0.9	50 U/
cis-1,3-Dichloropropene		0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Cyclohexane		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Dichlorodifluoromethane		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Ethylbenzene		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Isopropylbenzene		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Methyl Acetate		0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Methylcyclohexane		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Methylene Chloride		0.5 U/J	0.5 U/	0.5 U/	2500 U/	1	50 U/
Styrene		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
tert-Butyl Methyl Ether		0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Tetrachloroethene		16	9/J	7	59000	190	1000
Toluene		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
trans-1,2-Dichloroethene		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
trans-1,3-Dichloropropene		0.5 U/J	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Trichloroethene		20	2	2	2500 U/	6	180
Trichlorofluoromethane		3/J	0.5 U/	46	2500 U/	0.7	390
Trichlorotrifluoroethane		6/J	0.4 L/J	62	2500 U/	3	1800
Vinyl Chloride		0.5 U/	0.5 U/	0.5 U/	2500 U/	2	50 U/

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
Xylenes (total)		0.5 U/	0.5 U/	0.5 U/	2500 U/	0.5 U/	50 U/
Semi-Volatile Organic Compounds (ug/l)							
1,1'-Biphenyl		5 U	5 U	5 U	5 U	5 U	5 UJ
1,2,4,5 Tetrachlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
2,2-oxybis(1-Chloropropane)		5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol		20 U	20 U	20 U	20 U	20 U	20 U
2,4,6-Trichlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol		20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene		5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene		5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene		5 U	5 U	5 U	5 U	5 U	5 UJ
2-Chlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene		5 U	5 U	5 U	5 U	5 U	5 UJ
2-Methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline		20 U	20 U	20 U	20 U	20 U	20 U
2-Nitrophenol		5 U	5 U	5 U	5 U	5 U	5 U
3,3-Dichlorobenzidine		5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ
3-Nitroaniline		20 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol		20 UJ	20 UJ	20 U	20 U	20 U	20 U
4-Bromophenyl-phenylether		5 U	5 U	5 U	5 U	5 U	5 U
4-Chloro-3-methylphenol		5 U	5 U	5 U	5 U	5 U	5 U
4-Chloroaniline		5 U	5 U	5 U	5 U	5 UJ	5 UJ
4-Chlorophenyl-phenylether		5 U	5 U	5 U	5 U	5 U	5 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
4-Methylphenol	5 U	5 U	5 U	5 U	5 U	5 U	
4-Nitroaniline	20 U	20 U	20 U	20 U	20 U	20 U	
4-Nitrophenol	20 U	20 U	20 U	20 U	20 U	20 U	
Acenaphthene	5 U	5 U	5 U	5 U	5 U	5 UJ	
Acenaphthylene	5 U	5 U	5 U	5 U	5 U	5 UJ	
Acetophenone	5 U	5 U	5 U	5 U	5 U	5 U	
Anthracene	5 U	5 U	5 U	5 U	5 U	5 U	
Atrazine	5 UJ	5 UJ	5 U	5 U	5 U	5 U	
Benzaldehyde	5 U	5 U	5 U	5 U	5 U	5 U	
Benzo (g,h,i) perylene	5 U	5 U	5 UJ	5 U	5 UJ	5 U	
Benzo(a)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	
Benzo(a)pyrene	5 U	5 U	5 UJ	5 U	5 UJ	5 U	
Benzo(b)fluoranthene	5 U	5 U	5 UJ	5 U	5 UJ	5 U	
Benzo(k)fluoranthene	5 U	5 U	5 UJ	5 U	5 UJ	5 U	
bis(2-Chloroethoxy)methane	5 U	5 U	5 U	5 U	5 U	5 U	
bis(2-Chloroethyl)ether	5 U	5 U	5 U	5 U	5 U	5 U	
bis(2-Ethylhexyl)phthalate	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	
Butylbenzylphthalate	5 U	5 U	5 U	5 U	5 U	5 UJ	
Caprolactam	5 U	5 U	5 U	5 U	5 U	5 UJ	
Chrysene	5 U	5 U	5 U	5 U	5 U	5 U	
Di-n-butylphthalate	5 U	5 U	5 U	5 U	5 U	5 UJ	
Di-n-octylphthalate	5 U	5 U	5 U	5 U	5 U	5 UJ	
Dibenzo (a,h) - anthracene	5 U	5 U	5 UJ	5 U	5 UJ	5 U	
Dibenzofuran	5 U	5 U	5 U	5 U	5 U	5 U	
Diethylphthalate	5 U	5 U	5 U	5 U	5 U	5 UJ	

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
Dimethylphthalate		5 U	5 U	5 U	5 U	5 U	5 UJ
Fluoranthene		5 U	5 U	5 U	5 U	5 U	5 U
Fluorene		5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene		5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene		5 U	5 U	5 U	5 U	5 UJ	5 UJ
Hexachloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene		5 U	5 U	5 UJ	5 U	5 UJ	5 U
Isophorone		5 U	5 U	5 U	5 U	5 U	5 U
N-Nitroso-di-n-propylamine		5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine		5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene		5 U	5 U	5 U	5 U	5 U	5 UJ
Nitrobenzene		5 U	5 U	5 U	5 U	5 U	5 U
Pentachlorophenol		5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene		5 U	5 U	5 U	5 U	5 U	5 U
Phenol		5 U	5 U	5 U	5 U	5 U	5 U
Pyrene		5 U	5 U	5 U	5 U	5 U	5 U
Pesticides/PCBs (ug/l)							
4,4-DDD		0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U
4,4-DDE		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4-DDT		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Aldrin		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
alpha-BHC		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
alpha-Chlordane		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Aroclor-1016		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
Aroclor-1221		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor-1232		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1242		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1248		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1254		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
beta-BHC		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC		0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Dieldrin		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan I		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Endosulfan II		0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan sulfate		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin aldehyde		0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U
Endrin ketone		0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U
gamma-BHC (Lindane)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane		0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Heptachlor		0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Heptachlor epoxide		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methoxychlor		0.1 UJ	0.1 UJ	0.1 U	0.056 J	0.1 U	0.1 U
Toxaphene		1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane				0.94 U/J	15000/J	9.2	6.6/J
Perchlorate		4	6	3	3	2	3

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
Inorganics (Total) (ug/l)							
Aluminum	632	278	2100	1050	29800	196 U	
Antimony	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	
Arsenic	4.6	3.0 U	3.1	3.3	21.9	3.0 U	
Barium	35.2 J	24.4	29.8 J	54.3 J	340 J	39.8	
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U	0.83	0.30 U	
Cadmium	0.50 U	0.50 U	0.50 U	0.84 U	2.5 U	0.50 U	
Calcium	196000	247000	178000	183000	132000	140000	
Chromium	3.9	0.80 U	14.6	3.4	79.4	3.1	
Cobalt	1.2 U	1.2 U	1.2 U	1.2 U	22.6	1.2 U	
Copper	4.3	1.4 U	4.2	2.6	81.9	1.6	
Cyanide	0.70 U	1.0 U	0.70 U	0.70 U	0.70 U	0.70 U	
Iron	642	94.3	2670	1670	173000	36.4 U	
Lead	2.8 U	2.8 U	2.8 U	2.8 U	12.5	2.8 U	
Magnesium	53200	73200	63000	48000	61800	52900	
Manganese	28.8	1.1	33.2	805	1600	0.40 U	
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.14	0.10 U	
Nickel	3.4	1.7 U	11.8	19.7	86.4	1.7 U	
Potassium	8260	6420	3300	3620	12300	2640	
Selenium	12.3	25.1	6.1	11.0	9.2	7.9	
Silver	1.1 U	1.1 U	1.1 U	1.1 U	2.9	1.1 U	
Sodium	139000	150000	61300	93000	97500	63400	
Thallium	3.5 U	3.5 U	3.5 U	3.5 U	3.9	3.5 U	
Vanadium	3.4	2.6	12.6	8.5	128	5.8	
Zinc	8.8	1.7	7.0	6.6	2140	1.4 U	

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	MW10A	MW11A	OW07	OW1A	OW1B	OW2	
Sample ID:	GW202-MW10A-0057	GW202-MW11A-0045	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW2-0078	
Sample Date:	05/24/2002	05/22/2002	05/29/2002	05/29/2002	05/29/2002	05/31/2002	
Constituent	Depth (feet):	57 to N/A	45 to N/A	81 to N/A	80 to N/A	116 to N/A	78 to N/A
Inorganics (Dissolved) (ug/l)							
Aluminum	184	208	186	190	213	285 U	
Antimony	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	
Arsenic	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	
Barium	30.5	24.1	17.3	46.4	33.3	40.8	
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	
Cadmium	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Calcium	199000	249000	176000	178000	96800	141000	
Chromium	3.6	0.80 U	3.3	0.80 U	0.80 U	2.6	
Cobalt	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Copper	4.0	2.0 U	4.3	2.8	1.4 U	1.4 U	
Iron	17.0 U	17.0 U	22.5	208	193	38.8 U	
Lead	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	
Magnesium	53500	73200	60900	47300	50300	52900	
Manganese	1.1	0.40 U	18.6	738	182	0.60	
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
Nickel	2.4	1.7 U	16.1	18.1	1.7 U	1.7 U	
Potassium	8210	6530	2590	3300	3270	2660	
Selenium	12.3	25.1	7.6	11.0	5.1	9.4	
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	
Sodium	142000	157000	60100	91000	92600	62600	
Thallium	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	
Vanadium	2.3	2.2	5.2	5.1	0.70 U	5.9	
Zinc	6.8	9.4	12.3	33.6	8.9	6.3 U	

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6	
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048	
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002	
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A	48 to N/A
Volatile Organic Compounds (ug/l)							
1,1,1-Trichloroethane	100 U/	1 U/	1 U/	10 U/	2	10 U	
1,1,1,2,2-Tetrachloroethane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,1,2-Trichloroethane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,1-Dichloroethane	100 U/	1 U/	1 U/	10 U/	0.6	10 U	
1,1-Dichloroethene	1500	15	5	10 U/	240	240	
1,2,3-Trichlorobenzene	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,2,4-Trichlorobenzene	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,2-Dibromo-3-chloropropane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,2-Dibromoethane [EDB]	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,2-Dichlorobenzene	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,2-Dichloroethane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,2-Dichloropropane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,3-Dichlorobenzene	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
1,4-Dichlorobenzene	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
2-Butanone	1000 U/	13 U/J	13 U/J	100 U/J	5 U/J	100 U	
2-Hexanone	1000 U/	13 U/	13 U/	100 U/	5 U/	100 U	
4-Methyl-2-pentanone	1000 U/	13 U/	13 U/	100 U/	5 U/	100 U	
Acetone	1000 U/	13 U/	180 U/J	100 U/	5 U/	100 U	
Benzene	100 U/	1 U/	1 U/	10 U/	0.9	10 U	
Bromochloromethane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
Bromodichloromethane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
Bromoform	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
Bromomethane	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	
Carbon Disulfide	100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U	

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6	
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048	
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002	
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A	48 to N/A
Carbon Tetrachloride		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Chlorobenzene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Chlorodibromomethane		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Chloroethane		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Chloroform		100 U/	28	1 U/	10 U/	5 U/J	10 U
Chloromethane		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
cis-1,2-Dichloroethene		100 U/	1 U/	1 U/	20	0.5 U/	10 U
cis-1,3-Dichloropropene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Cyclohexane		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Dichlorodifluoromethane		100 U/	1 U/	1 U/	10 U/	3	10 U
Ethylbenzene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Isopropylbenzene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Methyl Acetate		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Methylcyclohexane		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Methylene Chloride		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Styrene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
tert-Butyl Methyl Ether		100 U/	1 U/	1 U/	10 U/	32/J	22
Tetrachloroethene		1700	20	28	150	150	140
Toluene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
trans-1,2-Dichloroethene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
trans-1,3-Dichloropropene		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Trichloroethene		180	33	2	390	26/J	23
Trichlorofluoromethane		330	3	2	32	380	340
Trichlorotrifluoroethane		530	8	17	160	780	840
Vinyl Chloride		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6	
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048	
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002	
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A	
Xylenes (total)		100 U/	1 U/	1 U/	10 U/	0.5 U/	10 U
Semi-Volatile Organic Compounds (ug/l)							
1,1'-Biphenyl		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
1,2,4,5 Tetrachlorobenzene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2,2-oxybis(1-Chloropropane)		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2,4,5-Trichlorophenol		20 U	20 UJ	20 U	20 UJ	20 U	20 U
2,4,6-Trichlorophenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2,4-Dichlorophenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2,4-Dimethylphenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2,4-Dinitrophenol		20 U	20 UJ	20 U	20 UJ	20 U	20 U
2,4-Dinitrotoluene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2,6-Dinitrotoluene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2-Chloronaphthalene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2-Chlorophenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2-Methylnaphthalene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2-Methylphenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
2-Nitroaniline		20 U	20 UJ	20 U	20 UJ	20 U	20 U
2-Nitrophenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
3,3-Dichlorobenzidine		5 UJ	5 UJ	5 U	5 UJ	5 U	5 U
3-Nitroaniline		20 U	20 UJ	20 U	20 UJ	20 U	20 U
4,6-Dinitro-2-methylphenol		20 U	20 UJ	20 UJ	20 UJ	20 UJ	20 U
4-Bromophenyl-phenylether		5 U	5 UJ	5 U	5 UJ	5 U	5 U
4-Chloro-3-methylphenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
4-Chloroaniline		5 UJ	5 UJ	5 U	5 UJ	5 U	5 U
4-Chlorophenyl-phenylether		5 U	5 UJ	5 U	5 UJ	5 U	5 U

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Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6	
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048	
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002	
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A	48 to N/A
4-Methylphenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
4-Nitroaniline		20 U	20 UJ	20 U	20 UJ	20 U	20 U
4-Nitrophenol		20 U	20 UJ	20 U	20 UJ	20 U	20 U
Acenaphthene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Acenaphthylene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Acetophenone		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Anthracene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Atrazine		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Benzaldehyde		1.4 J	1.2 J	5 U	5 UJ	5 U	5 U
Benzo (g,h,i) perylene		5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
Benzo(a)anthracene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Benzo(a)pyrene		5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
Benzo(b)fluoranthene		5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
Benzo(k)fluoranthene		5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
bis(2-Chloroethoxy)methane		5 U	5 UJ	5 U	5 UJ	5 U	5 U
bis(2-Chloroethyl)ether		5 U	5 UJ	5 U	5 UJ	5 U	5 U
bis(2-Ethylhexyl)phthalate		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
Butylbenzylphthalate		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
Caprolactam		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
Chrysene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Di-n-butylphthalate		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
Di-n-octylphthalate		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
Dibenzo (a,h) - anthracene		5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
Dibenzofuran		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Diethylphthalate		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6	
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048	
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002	
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A	
Dimethylphthalate		5 U	5 UJ	5 U	5 UJ	5 UJ	5 U
Fluoranthene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Fluorene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Hexachlorobenzene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Hexachlorobutadiene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Hexachlorocyclopentadiene		5 UJ	5 UJ	5 U	5 UJ	5 U	5 U
Hexachloroethane		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Indeno(1,2,3-cd)pyrene		5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U
Isophorone		5 U	5 UJ	5 U	5 UJ	5 U	5 U
N-Nitroso-di-n-propylamine		5 U	5 UJ	5 U	5 UJ	5 U	5 U
N-Nitrosodiphenylamine		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Naphthalene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Nitrobenzene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Pentachlorophenol		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Phenanthrene		5 U	5 UJ	5 U	5 UJ	5 U	5 U
Phenol		5 U	5 UJ	5 U	5 UJ	2.1 J	5 U
Pyrene		5 U	1.3 J	5 U	5 UJ	5 U	5 U
Pesticides/PCBs (ug/l)							
4,4-DDD		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4-DDE		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4,4-DDT		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Aldrin		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
alpha-BHC		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
alpha-Chlordane		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Aroclor-1016		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A
Aroclor-1221		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Aroclor-1232		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1242		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1248		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1254		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
beta-BHC		0.01 U	0.01 U	0.01 U	0.0064 J	0.0084 J
delta-BHC		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dieldrin		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan I		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Endosulfan II		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan sulfate		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin aldehyde		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endrin ketone		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-BHC (Lindane)		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Heptachlor		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Heptachlor epoxide		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methoxychlor		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toxaphene		1 U	1 U	1 U	1 U	1 U
1,4-Dioxane		12/J	6.5/J	0.94 U/J	0.94 U/J	0.65/J
Perchlorate		3	6	2	4	2 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A
Inorganics (Total) (ug/l)						
Aluminum	875	495	294 U	290 U	232 U	233 U
Antimony	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Arsenic	3.0 U	3.0 U	3.0 U	4.2	3.0 U	3.0 U
Barium	28.2	49.3 J	25.4 J	61.0 J	31.5	32.6
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	177000	158000	98000	125000	197000	204000
Chromium	5.9	17.9	1.5	43.1	0.80 U	0.80 U
Cobalt	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	2.1	1.8	1.4 U	2.2 U	1.4 U	1.6
Cyanide	0.70 U	0.70 U	0.70 U	1.1	0.70 U	0.70 U
Iron	1140	513	175	327	35.2 U	35.4 U
Lead	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Magnesium	60000	50300	59500	36700	61800	63900
Manganese	17.8	13.5	19.0	8.8	0.40 U	0.40 U
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.75	0.84
Nickel	2.6	16.4	1.7 U	88.2	1.7 U	1.7 U
Potassium	2940	4860	3350	3040	3510	3660
Selenium	7.5	5.7	6.9	3.5	2.4	2.2 U
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	64800	115000	111000	86800	104000	108000
Thallium	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Vanadium	7.3	4.8	6.0	5.5 U	5.6	5.9
Zinc	3.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW3	OW4A	OW4B	OW5	OW6	OW6	
Sample ID:	GW202-OW3-0080	GW202-OW4A-0073	GW202-OW4B-0125	GW202-OW5-0048	GW202-OW6-0048	GW202-OW6-1048	
Sample Date:	05/31/2002	05/30/2002	05/30/2002	05/30/2002	05/31/2002	05/31/2002	
Constituent	Depth (feet):	80 to N/A	73 to N/A	125 to N/A	48 to N/A	48 to N/A	48 to N/A
Inorganics (Dissolved) (ug/l)							
Aluminum		197 U	205	261 U	174	248 U	224 U
Antimony		3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Arsenic		3.0 U	3.0 U	3.0 U	3.4	3.0 U	3.0 U
Barium		24.6	45.0	24.2	57.2	31.3	31.2
Beryllium		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium		177000	156000	99400	125000	195000	195000
Chromium		3.2	12.2	2.0	29.9	0.80 U	0.80 U
Cobalt		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper		2.4	3.3	1.4 U	2.1	1.7	1.6
Iron		39.4 U	18.6	114	57.1	30.7 U	19.7 U
Lead		2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Magnesium		59500	49500	60700	36800	61100	61100
Manganese		2.7	7.3	17.4	7.0	0.56	0.40 U
Mercury		0.10 U	0.10 U	0.10 U	0.10 U	0.67	0.74
Nickel		1.9	2.1	2.3	90.9	1.7 U	1.7 U
Potassium		2760	4410	3280	2900	3480	3470
Selenium		7.9	5.1	7.9	4.8	2.2 U	2.2 U
Silver		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium		64000	111000	108000	83900	102000	103000
Thallium		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Vanadium		5.5	4.3	5.1	5.3	5.3	5.1
Zinc		15.9 U	11.2	2.1	8.1	8.8 U	3.8 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW8
Sample ID:	GW202-OW8-0075
Sample Date:	05/30/2002
Constituent	Depth (feet): 75 to N/A

Volatile Organic Compounds (ug/l)

1,1,1-Trichloroethane	1000 U/
1,1,2,2-Tetrachloroethane	1000 U/
1,1,2-Trichloroethane	1000 U/
1,1-Dichloroethane	1000 U/
1,1-Dichloroethene	2400
1,2,3-Trichlorobenzene	1000 U/
1,2,4-Trichlorobenzene	1000 U/
1,2-Dibromo-3-chloropropane	1000 U/
1,2-Dibromoethane [EDB]	1000 U/
1,2-Dichlorobenzene	1000 U/
1,2-Dichloroethane	1000 U/
1,2-Dichloropropane	1000 U/
1,3-Dichlorobenzene	1000 U/
1,4-Dichlorobenzene	1000 U/
2-Butanone	10000 U/
2-Hexanone	10000 U/
4-Methyl-2-pentanone	10000 U/
Acetone	10000 U/
Benzene	1000 U/
Bromochloromethane	1000 U/
Bromodichloromethane	1000 U/
Bromoform	1200 U/J
Bromomethane	1000 U/
Carbon Disulfide	1000 U/

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Station ID:	OW8
	Sample ID:	GW202-OW8-0075
	Sample Date:	05/30/2002
	Depth (feet):	75 to N/A
Carbon Tetrachloride		1000 U/
Chlorobenzene		1000 U/
Chlorodibromomethane		1000 U/
Chloroethane		1000 U/
Chloroform		1000 U/
Chloromethane		1000 U/
cis-1,2-Dichloroethene		1000 U/
cis-1,3-Dichloropropene		1000 U/
Cyclohexane		1000 U/
Dichlorodifluoromethane		1000 U/
Ethylbenzene		1000 U/
Isopropylbenzene		1000 U/
Methyl Acetate		1000 U/
Methylcyclohexane		1000 U/
Methylene Chloride		1000 U/
Styrene		1000 U/
tert-Butyl Methyl Ether		1000 U/
Tetrachloroethene		14000
Toluene		1000 U/
trans-1,2-Dichloroethene		1000 U/
trans-1,3-Dichloropropene		1000 U/
Trichloroethene		1100
Trichlorofluoromethane		1000 U/
Trichlorotrifluoroethane		2700
Vinyl Chloride		1000 U/

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

	Station ID:	OW8
	Sample ID:	GW202-OW8-0075
	Sample Date:	05/30/2002
Constituent	Depth (feet):	75 to N/A
Xylenes (total)		1000 U/
Semi-Volatile Organic Compounds (ug/l)		
1,1'-Biphenyl		5 UJ
1,2,4,5 Tetrachlorobenzene		5 U
2,2-oxybis(1-Chloropropane)		5 U
2,4,5-Trichlorophenol		20 U
2,4,6-Trichlorophenol		5 U
2,4-Dichlorophenol		5 U
2,4-Dimethylphenol		5 U
2,4-Dinitrophenol		20 U
2,4-Dinitrotoluene		5 U
2,6-Dinitrotoluene		5 U
2-Chloronaphthalene		5 U
2-Chlorophenol		5 U
2-Methylnaphthalene		5 U
2-Methylphenol		5 U
2-Nitroaniline		20 U
2-Nitrophenol		5 U
3,3-Dichlorobenzidine		5 U
3-Nitroaniline		20 U
4,6-Dinitro-2-methylphenol		20 UJ
4-Bromophenyl-phenylether		5 U
4-Chloro-3-methylphenol		5 U
4-Chloroaniline		5 U
4-Chlorophenyl-phenylether		5 U

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Station ID:	Depth (feet):
	OW8	
	Sample ID: GW202-OW8-0075	
	Sample Date: 05/30/2002	
	Depth (feet): 75 to N/A	
4-Methylphenol		5 U
4-Nitroaniline		20 U
4-Nitrophenol		20 U
Acenaphthene		5 U
Acenaphthylene		5 U
Acetophenone		5 U
Anthracene		5 U
Atrazine		5 U
Benzaldehyde		1.7 J
Benzo (g,h,i) perylene		5 UJ
Benzo(a)anthracene		5 U
Benzo(a)pyrene		5 UJ
Benzo(b)fluoranthene		5 UJ
Benzo(k)fluoranthene		5 UJ
bis(2-Chloroethoxy)methane		5 U
bis(2-Chloroethyl)ether		5 U
bis(2-Ethylhexyl)phthalate		5 UJ
Butylbenzylphthalate		5 UJ
Caprolactam		5 UJ
Chrysene		5 U
Di-n-butylphthalate		5 UJ
Di-n-octylphthalate		5 UJ
Dibenzo (a,h) - anthracene		5 UJ
Dibenzofuran		5 U
Diethylphthalate		5 UJ

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW8	
Sample ID:	GW202-OW8-0075	
Sample Date:	05/30/2002	
Constituent	Depth (feet):	75 to N/A
Dimethylphthalate	5 UJ	
Fluoranthene	5 U	
Fluorene	5 U	
Hexachlorobenzene	5 U	
Hexachlorobutadiene	5 U	
Hexachlorocyclopentadiene	5 U	
Hexachloroethane	5 U	
Indeno(1,2,3-cd)pyrene	5 UJ	
Isophorone	5 U	
N-Nitroso-di-n-propylamine	5 U	
N-Nitrosodiphenylamine	5 U	
Naphthalene	5 U	
Nitrobenzene	5 U	
Pentachlorophenol	5 U	
Phenanthrene	5 U	
Phenol	4.5 J	
Pyrene	5 U	
Pesticides/PCBs (ug/l)		
4,4-DDD	0.02 U	
4,4-DDE	0.02 U	
4,4-DDT	0.02 U	
Aldrin	0.01 U	
alpha-BHC	0.01 U	
alpha-Chlordane	0.01 U	
Aroclor-1016	0.2 U	

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Station ID:	OW8
	Sample ID:	GW202-OW8-0075
	Sample Date:	05/30/2002
	Depth (feet):	75 to N/A
Aroclor-1221		0.4 U
Aroclor-1232		0.2 U
Aroclor-1242		0.2 U
Aroclor-1248		0.2 U
Aroclor-1254		0.2 U
Aroclor-1260		0.2 U
beta-BHC		0.01 U
delta-BHC		0.01 U
Dieldrin		0.02 U
Endosulfan I		0.01 U
Endosulfan II		0.02 U
Endosulfan sulfate		0.02 U
Endrin		0.02 U
Endrin aldehyde		0.02 U
Endrin ketone		0.02 U
gamma-BHC (Lindane)		0.01 U
gamma-Chlordane		0.01 U
Heptachlor		0.01 U
Heptachlor epoxide		0.01 U
Methoxychlor		0.1 U
Toxaphene		1 U
1,4-Dioxane		270 J
Perchlorate		3

A blank cell indicates analysis was not performed or the result was rejected during analysis

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW8
Sample ID:	GW202-OW8-0075
Sample Date:	05/30/2002
Constituent	Depth (feet): 75 to N/A

Inorganics (Total) (ug/l)

Aluminum	276 U
Antimony	3.8 U
Arsenic	3.0 U
Barium	31.8 J
Beryllium	0.30 U
Cadmium	0.50 U
Calcium	164000
Chromium	0.80 U
Cobalt	1.2 U
Copper	2.2
Cyanide	0.70 U
Iron	177
Lead	2.8 U
Magnesium	57000
Manganese	421
Mercury	0.10 U
Nickel	1.7 U
Potassium	2960
Selenium	5.0
Silver	1.1 U
Sodium	69500
Thallium	3.5 U
Vanadium	3.6
Zinc	1.4 U

A blank cell indicates analysis was not performed or the result was rejected during analysis.

Omega Comprehensive Data Listing - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Station ID:	OW8
Sample ID:	GW202-OW8-0075
Sample Date:	05/30/2002
Constituent	Depth (feet): 75 to N/A

Inorganics (Dissolved) (ug/l)	
Aluminum	178
Antimony	3.8 U
Arsenic	3.0 U
Barium	31.2
Beryllium	0.30 U
Cadmium	0.50 U
Calcium	173000
Chromium	0.80 U
Cobalt	1.2 U
Copper	1.4 U
Iron	116
Lead	2.8 U
Magnesium	61100
Manganese	672
Mercury	0.10 U
Nickel	1.7 U
Potassium	2780
Selenium	7.1
Silver	1.1 U
Sodium	70100
Thallium	3.5 U
Vanadium	0.70 U
Zinc	15.8

A blank cell indicates analysis was not performed or the result was rejected during analysis.

APPENDIX B
STATISTICAL SUMMARY TABLE

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Volatile Organic Compounds (ug/l)											
1,1,1-Trichloroethane	31	6	19.4	0.5	1000	0.7	3700	GW202-OW1A-0080	145	0.7	348
1,1,2,2-Tetrachloroethane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
1,1,2-Trichloroethane	31	2	6.5	0.5	2500	0.6	0.8	GW202-MW04B-1075	65.21	0.25	137.77
1,1-Dichloroethane	31	8	25.8	0.5	2500	0.2	4	GW202-MW04B-0075	65.47	0.6	138.01
1,1-Dichloroethene	31	22	71.0	0.5	2500	1	2400	GW202-OW8-0075	393.03	5	602.63
1,2,3-Trichlorobenzene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
1,2,4-Trichlorobenzene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
1,2-Dibromo-3-chloropropane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
1,2-Dibromoethane [EOB]	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
1,2-Dichlorobenzene	31	1	3.2	0.5	2500	0.2	0.2	GW202-MW06A-0042	65.18	0.25	137.74
1,2-Dichloroethane	31	1	3.2	0.5	2500	1	1	GW202-OW1B-0116	65.2	0.25	137.77
1,2-Dichloropropane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
1,3-Dichlorobenzene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
1,4-Dichlorobenzene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
2-Butanone	30	0	0.0	5	25000	n/a	n/a		673.52	2.5	1423.7
2-Hexanone	31	0	0.0	5	25000	n/a	n/a		651.87	2.5	1377.53
4-Methyl-2-pentanone	31	1	3.2	5	25000	0.9	0.9	GW202-MW08A-0040	651.82	2.5	1377.48
Acetone	30	2	6.7	3	25000	170	610	GW202-MW08D-0116	702.55	11	1450.89
Benzene	31	5	16.1	0.5	2500	0.5	4	GW202-MW04B-0075	65.5	0.5	138.04
Bromochloromethane	30	0	0.0	0.5	2500	n/a	n/a		67.34	0.25	142.36
Bromodichloromethane	31	2	6.5	0.5	2500	0.2	0.2	GW202-MW08A-0040	65.17	0.25	137.74
Bromoform	31	0	0.0	0.5	2500	n/a	n/a		68.4	0.25	143
Bromomethane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Carbon Disulfide	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Carbon Tetrachloride	31	4	12.9	0.5	2500	0.3	180	GW202-MW05A-0049	71.02	0.25	143.76
Chlorobenzene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Chlorodibromomethane	31	1	3.2	0.5	2500	0.6	0.6	GW202-MW08A-0040	65.19	0.25	137.75
Chloroethane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Chloroform	31	17	54.8	0.5	2500	0.3	1200	GW202-MW05A-0049	127.63	2.5	223.98
Chloromethane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
cis-1,2-Dichloroethane	31	14	45.2	0.5	2500	0.3	22	GW202-MW08A-0040	67.64	3	140.01
cis-1,3-Dichloropropene	31	1	3.2	0.5	2500	0.4	0.4	GW202-MW08A-0040	65.18	0.25	137.75
Cyclohexane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Dichlorodifluoromethane	31	3	9.7	0.5	2500	2	3	GW202-OW6-0048	65.38	0.5	137.93

n/a - Criteria not available
 Half undetect weighting used for statistical calculations

02/10/200 GW2022SD DBF - Stats_u frx

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Volatile Organic Compounds (ug/l)											
Ethylbenzene	31	1	3.2	0.5	2500	0.2	0.2	GW202-MW08C-0087	65.18	0.25	137.74
Isopropylbenzene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Methyl Acetate	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Methylcyclohexane	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Methylene Chloride	31	1	3.2	0.5	2500	1	1	GW202-OW1B-0116	65.2	0.25	137.77
Styrene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
tert-Butyl Methyl Ether	31	8	25.8	0.5	2500	0.2	32	GW202-OW6-0048	67.08	1	139.51
Tetrachloroethene	31	31	100.0	n/a	n/a	0.2	59000	GW202-OW1A-0080	2733.8	89	6010.73
Toluene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
trans-1,2-Dichloroethene	31	3	9.7	0.5	2500	0.2	0.8	GW202-MW04B-0075	65.21	0.25	137.78
trans 1,3 Dichloropropene	31	0	0.0	0.5	2500	n/a	n/a		65.18	0.25	137.74
Trichloroethene	31	29	93.5	0.5	2500	2	1100	GW202-OW8-0075	236.69	33	341.97
Trichlorofluoromethane	31	17	54.8	0.5	2500	0.2	680	GW202-MW02A-0055	167.07	5	252.27
Trichlorotrifluoroethane	31	23	74.2	0.5	2500	0.2	2700	GW202-OW8-0075	439.05	12.5	854.09
Vinyl Chloride	31	1	3.2	0.5	2500	2	2	GW202-OW1B-0116	65.23	0.25	137.8
Xylenes (total)	31	2	6.5	0.5	2500	0.7	0.8	GW202-MW08C-0087	65.21	0.25	137.77
Semi Volatile Organic Compounds (ug/l)											
1,1-Biphenyl	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
1,2,4,5-Tetrachlorobenzene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2,2-oxybis(1-Chloropropane)	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2,4,5-Trichlorophenol	30	0	0.0	20	20	n/a	n/a		10	10	10
2,4,6-Trichlorophenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2,4-Dichlorophenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2,4-Dimethylphenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2,4-Dinitrophenol	30	0	0.0	20	20	n/a	n/a		10	10	10
2,4-Dinitrotoluene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2,6-Dinitrotoluene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2-Chloronaphthalene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2-Chlorophenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2-Methylnaphthalene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2-Methylphenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
2-Nitroaniline	30	0	0.0	20	20	n/a	n/a		10	10	10
2-Nitrophenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5

n/a - Criteria not available
 Half undetect weighting used for statistical calculations

02/10/200

GW2022SD DBF - Stats_u frx

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Semi-Volatile Organic Compounds (ug/l)											
3,3-Dichlorobenzidine	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
3-Nitroaniline	30	0	0.0	20	20	n/a	n/a		10	10	10
4,6-Dinitro-2-methylphenol	30	0	0.0	20	20	n/a	n/a		10	10	10
4-Bromophenyl-phenylether	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
4-Chloro-3-methylphenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
4-Chloroaniline	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
4-Chlorophenyl-phenylether	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
4-Methylphenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
4-Nitroaniline	30	0	0.0	20	20	n/a	n/a		10	10	10
4-Nitrophenol	30	0	0.0	20	20	n/a	n/a		10	10	10
Acenaphthene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Acenaphthylene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Acetophenone	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Anthracene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Atrazine	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Benzaldehyde	30	4	13.3	5	5	1.2	1.7	GW202-OW8-0075	2.35	2.5	2.47
Benzo (g,h,i) perylene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Benzo(a)anthracene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Benzo(a)pyrene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Benzo(b)fluoranthene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Benzo(k)fluoranthene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
bis(2-Chloroethoxy)methane	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
bis(2-Chloroethyl)ether	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
bis(2-Ethylhexyl)phthalate	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Butylbenzylphthalate	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Caprolactam	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Chrysene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Di-n-butylphthalate	30	1	3.3	5	5	1	1	GW202-MW03A-0042	2.45	2.5	2.53
Di-n-octylphthalate	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Dibenzo (a,h) - anthracene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Dibenzofuran	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Diethylphthalate	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Dimethylphthalate	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Fluoranthene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5

n/a - Criteria not available
 Half undetect weighting used for statistical calculations.

02/10/200

GW2022SD.DBF - Stats_u.frx

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Semi-Volatile Organic Compounds (ug/l)											
Fluorene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Hexachlorobenzene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Hexachlorobutadiene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Hexachlorocyclopentadiene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Hexachloroethane	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Indeno(1,2,3-cd)pyrene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Isophorone	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
N-Nitroso-di-n-propylamine	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
N-Nitrosodiphenylamine	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Naphthalene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Nitrobenzene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Pentachlorophenol	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Phenanthrene	30	0	0.0	5	5	n/a	n/a		2.5	2.5	2.5
Phenol	30	2	6.7	5	5	2.1	4.5	GW202-OW8-0075	2.55	2.5	2.67
Pyrene	30	1	3.3	5	5	1.3	1.3	GW202-OW4A-0073	2.46	2.5	2.53
Pesticides/PCBs (ug/l)											
4,4-DDD	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
4,4-DDE	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
4,4-DDT	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
Aldrin	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
alpha-BHC	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
alpha-Chlordane	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
Aroclor-1016	31	0	0.0	0.2	0.2	n/a	n/a		0.1	0.1	0.1
Aroclor 1221	31	0	0.0	0.4	0.4	n/a	n/a		0.2	0.2	0.2
Aroclor-1232	31	0	0.0	0.2	0.2	n/a	n/a		0.1	0.1	0.1
Aroclor-1242	31	0	0.0	0.2	0.2	n/a	n/a		0.1	0.1	0.1
Aroclor-1248	31	0	0.0	0.2	0.2	n/a	n/a		0.1	0.1	0.1
Aroclor-1254	31	0	0.0	0.2	0.2	n/a	n/a		0.1	0.1	0.1
Aroclor-1260	31	0	0.0	0.2	0.2	n/a	n/a		0.1	0.1	0.1
beta-BHC	31	2	6.5	0.01	0.01	0.01	0.01	GW202-OW6-1048	0.01	0.01	0.01
delta-BHC	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
Dieldrin	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
Endosulfan I	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01

n/a - Criteria not available
Half undetect weighting used for statistical calculations

02/10/200

GW2022SD DBF - Stats_u frx

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Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Pesticides/PCBs (ug/l)											
Endosulfan II	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
Endosulfan sulfate	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
Endrin	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
Endrin aldehyde	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
Endrin ketone	31	0	0.0	0.02	0.02	n/a	n/a		0.01	0.01	0.01
gamma-BHC (Lindane)	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
gamma-Chlordane	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
Heptachlor	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
Heptachlor epoxide	31	0	0.0	0.01	0.01	n/a	n/a		0.01	0.01	0.01
Methoxychlor	31	1	3.2	0.1	0.1	0.06	0.06	GW202-OW1A-0080	0.05	0.05	0.05
Toxaphene	31	0	0.0	1	1	n/a	n/a		0.5	0.5	0.5
1,4-Dioxane											
1,4-Dioxane	11	8	72.7	0.94	0.94	0.65	15000	GW202-OW1A-0080	1392.27	6.6	3858.37
Perchlorate											
Perchlorate	31	28	90.3	2	2	1	7	GW202-MW02A-0055	3.35	3	3.86
Inorganics (Total) (ug/l)											
Aluminum	31	16	51.6	196	323	201	29800	GW202-OW1B-0116	1275.47	201	2893.54
Antimony	31	0	0.0	3.8	3.8	n/a	n/a		1.9	1.9	1.9
Arsenic	31	12	38.7	3	3	3	21.9	GW202-OW1B-0116	3.96	1.5	5.45
Barium	31	31	100.0	n/a	n/a	24.4	340	GW202-OW1B-0116	53.76	43.7	70.68
Beryllium	31	2	6.5	0.3	0.3	0.83	0.95	GW202-MW07A-0041	0.2	0.15	0.25
Cadmium	31	3	9.7	0.5	2.5	0.64	0.82	GW202-MW09A-0032	0.33	0.25	0.4
Calcium	31	31	100.0	n/a	n/a	98000	298000	GW202-MW07A-0041	169935.48	164000	182829.69
Chromium	31	24	77.4	0.8	0.8	0.93	79.4	GW202-OW1B-0116	20.06	5.9	27.75
Cobalt	31	1	3.2	1.2	1.2	22.6	22.6	GW202-OW1B-0116	1.31	0.6	2.51
Copper	31	14	45.2	1.4	2.2	1.4	81.9	GW202-OW1B-0116	3.95	0.7	8.37
Cyanide	31	2	6.5	0.7	2.3	1.1	1.8	GW202-MW01A-0055	0.5	0.35	0.6
Iron	31	19	61.3	17	80.6	20.6	173000	GW202-OW1B-0116	5877.15	64.9	15332.32
Lead	31	1	3.2	2.8	2.8	12.5	12.5	GW202-OW1B-0116	1.76	1.4	2.37
Magnesium	31	31	100.0	n/a	n/a	36700	92800	GW202-MW07A-0041	52925.81	52800	56501.7
Manganese	31	24	77.4	0.4	0.4	0.69	1600	GW202-OW1B-0116	156.85	6.8	264.29
Mercury	31	4	12.9	0.1	0.1	0.11	0.84	GW202-OW6-1048	0.1	0.05	0.16
Nickel	31	9	29.0	1.7	1.7	2	88.2	GW202-OW5-0048	8.11	0.85	14.71
Potassium	31	31	100.0	n/a	n/a	2640	12300	GW202-OW1B-0116	4901.29	4470	5556.99

n/a - Criteria not available
Half undetect weighting used for statistical calculations.

Omega Comprehensive Statistical Data Summary - Groundwater Sampling: Second Quarter 2002, Whittier, CA.

Constituent	Number of Samples Analyzed	Number of Detections	Detection Frequency (%)	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Value	Maximum Detected Value	Sample Number of Maximum Detected Value	Arithmetic Mean	Median Value	Upper 95% Confidence Limit
Inorganics (Total) (ug/l)											
Selenium	31	26	83.9	2.2	2.2	2.4	80.6	GW202-MW08A-0040	9.29	5.7	13.71
Silver	31	1	3.2	1.1	1.1	2.9	2.9	GW202-OW1B-0116	0.63	0.55	0.75
Sodium	31	31	100.0	n/a	n/a	61300	201000	GW202-MW07A-0041	103622.58	97500	114394.41
Thallium	31	1	3.2	3.5	3.5	3.9	3.9	GW202-OW1B-0116	1.82	1.75	1.94
Vanadium	31	30	96.8	5.5	5.5	1.3	128	GW202-OW1B-0116	8.66	4.7	15.44
Zinc	31	16	51.6	1.4	3.7	1.4	2140	GW202-OW1B-0116	72.97	1.7	189.9
Inorganics (Dissolved) (ug/l)											
Aluminum	31	25	80.6	197	285	162	472	GW202-MW04B-1075	195.82	190	216.05
Antimony	31	0	0.0	3.8	3.8	n/a	n/a		1.9	1.9	1.9
Arsenic	31	10	32.3	3	3	3.4	17.1	GW202-MW08C-0087	3.2	1.5	4.29
Barium	31	31	100.0	n/a	n/a	17.3	86.6	GW202-MW08D-0116	42.39	40.8	47.43
Beryllium	31	0	0.0	0.3	0.3	n/a	n/a		0.15	0.15	0.15
Cadmium	31	0	0.0	0.5	0.5	n/a	n/a		0.25	0.25	0.25
Calcium	31	31	100.0	n/a	n/a	96800	309000	GW202-MW07A-0041	169845.16	173000	183464.07
Chromium	31	20	64.5	0.8	1.4	2	77.3	GW202-MW08A-0040	16.51	3.6	23.6
Cobalt	31	0	0.0	1.2	1.2	n/a	n/a		0.6	0.6	0.6
Copper	31	17	54.8	1.4	2.9	1.4	4.3	GW202-OW07-0081	1.81	1.6	2.12
Iron	31	17	54.8	1.7	39.4	18.1	450	GW202-MW03A-0042	76.47	19.4	112.96
Lead	31	1	3.2	2.8	2.8	8.2	8.2	GW202-MW08C-0087	1.62	1.4	1.99
Magnesium	31	31	100.0	n/a	n/a	36800	96900	GW202-MW07A-0041	52838.71	52800	56508.07
Manganese	31	21	67.7	0.4	0.4	0.54	845	GW202-MW09A-0032	116.15	2.7	189.81
Mercury	31	4	12.9	0.1	0.1	0.17	0.74	GW202-OW6-1048	0.1	0.05	0.15
Nickel	31	11	35.5	1.7	1.7	1.9	90.9	GW202-OW5-0048	5.23	0.85	10.22
Potassium	31	31	100.0	n/a	n/a	2590	9960	GW202-MW09A-0032	4511.29	4310	5029
Selenium	31	21	67.7	2.2	8	2.9	88.4	GW202-MW08A-0040	9.49	5.1	14.37
Silver	31	1	3.2	1.1	1.1	1.4	1.4	GW202-MW04A-0047	0.58	0.55	0.62
Sodium	31	31	100.0	n/a	n/a	60100	205000	GW202-MW07A-0041	103603.23	92600	114865.58
Thallium	31	0	0.0	3.5	3.5	n/a	n/a		1.75	1.75	1.75
Vanadium	31	29	93.5	0.7	0.7	1.5	5.9	GW202-OW2-0078	3.94	4.4	4.41
Zinc	31	24	77.4	1.4	15.9	1.8	33.6	GW202-OW1A-0080	8.3	7.5	10.53

n/a - Criteria not available
Half undetect weighting used for statistical calculations

APPENDIX C
QUALIFIED DATA REPORTS



ICF Consulting / Laboratory Data Consultants

Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Nancy Riveland-Har
Remedial Project Manager
Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong *RF*
ESAT Project Officer
Quality Assurance (QA) Office, PMD-3

FROM: Doug Lindelof *DL*
Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order No.: B01
Technical Direction No.: B0105128 Amendment 2

DATE: July 17, 2002

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

SITE: Omega Chem OU-2
SITE ACCOUNT NO.: 09 BC LA02
CERCLIS ID NO.: CAD042245001
CASE NO.: 30499
SDG NO.: Y0GP9
LABORATORY: Clayton Group Services (CLAYTN)
ANALYSIS: Volatiles
SAMPLES: 20 Water Samples
COLLECTION DATE: May 28, 29, 30, and 31, 2002
REVIEWER: Denise McCaffrey, ESAT/LDC

The comments and qualifications presented in this report have been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Cecilia Moore, CLP PO USEPA Region 5
Steve Remaley, CLP PO USEPA Region 9
ESAT File

CLP PO: FYI Attention Action

SAMPLING ISSUES: Yes No

Data Validation Report

Case No.: 30499 SDG No.: Y0GP9
Site: Omega Chem OU-2
Laboratory: Clayton Group Services (CLAYTN)
Reviewer: Denise McCaffrey, ESAT/LDC
Date: July 17, 2002

I. Case Summary

SAMPLE INFORMATION:

Samples: Y0GP9, Y0GQ0, Y0GQ1, Y0GQ2, Y0GQ3, Y0GQ4,
Y0GQ5, Y0GQ6, Y0GQ7, Y0GQ8, Y0GQ9, Y0GR0,
Y0GR1, Y0GR2, Y0GR3, Y0GR4, Y0GR5, Y0GR6,
Y0GR7, and Y0GR8
Concentration and Matrix: Low Level Water
Analysis: Volatiles
SOW: OLC03.2
Collection Date: May 28, 29, 30, and 31, 2002
Sample Receipt Date: May 29, 30, 31, and June 1, 2002
Extraction Date: Not Applicable
Analysis Date: June 3, 4, 5, 6, and 7, 2002

FIELD QC:

Trip Blanks (TB): Y0GP9, Y0GQ6, Y0GQ9, and Y0GR5
Field Blanks (FB): Not Provided
Equipment Blanks (EB): Y0GR4
Background Samples (BG): Not Provided
Field Duplicates (D1): Y0GQ1 and Y0GQ2
Field Duplicates (D2): Y0GR8 and Y0GR9 (see Additional Comments)

METHOD BLANKS AND ASSOCIATED SAMPLES:

VBLKLY: Y0GP9, Y0GQ0, Y0GQ1, Y0GQ4, and Y0GQ5
VBLKLZ: Y0GQ5DL, Y0GQ6, Y0GQ7, Y0GQ8, Y0GQ8DL, Y0GQ9,
and Y0GR0
VBLKLA: Y0GR1, Y0GR2, Y0GR2MS, Y0GR2MSD, Y0GR3,
Y0GR4, Y0GR5, and Y0GR8
VBLKLB: Y0GR6, Y0GR7, and Y0GR8DL
VBLKLC: Y0GQ2, Y0GQ3, and VHBLKLA

TABLES:

1A: Analytical Results with Qualifications
1B: Data Qualifier Definitions for Organic Data Review

MS- Matrix Spike, MSD - Matrix Spike Duplicate, DL - Dilution

CLP PO ACTION:

None.

CLP PO ATTENTION:

- 1) Detected results for several analytes are qualified as nondetected and estimated (U,J) due to contamination in the storage blank, trip blank, and equipment blank.
- 2) Detected results and quantitation limits for several analytes are qualified as estimated (J) due to calibration problems.

SAMPLING ISSUES:

Detected results for bromoform are qualified as nondetected and estimated (U,J) due to contamination in trip blank Y0GQ9 and equipment blank Y0GR4.

ADDITIONAL COMMENTS:

Results for sample Y0GR9, the field duplicate of sample Y0GR8, are included in Case No. 30499, SDG No. Y0GR9.

Tentatively identified compounds (TICs) detected in the samples are reported on Form 1Fs and are attached to this report.

Standard preparation logs are missing in the data package and cannot be evaluated. This information was requested from the laboratory but has not been received to date. Data are not qualified in this report due to missing standard preparation logs. Refer to the attached telephone record log for details.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- *USEPA Contract Laboratory Program Statement of Work for Low Concentration Organics Analysis, OLC03.2, December 2000*; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review, June 2001*

II. Validation Summary

	Acceptable/Comment	
HOLDING TIMES	YES	
GC/MS TUNE/GC PERFORMANCE	YES	
INITIAL CALIBRATIONS	YES	
CONTINUING CALIBRATIONS	NO	B
LABORATORY BLANKS	NO	A
FIELD BLANKS	NO	A
DEUTERATED MONITORING COMPOUNDS (DMCs)	YES	
MATRIX SPIKE/DUPLICATES	YES	
INTERNAL STANDARDS	YES	
COMPOUND IDENTIFICATION	YES	
COMPOUND QUANTITATION	NO	C, E, F, G, H
SYSTEM PERFORMANCE	YES	
FIELD DUPLICATE SAMPLE ANALYSIS	NO	D

III. Validity and Comments

A. The following results are qualified as nondetected and estimated due to storage blank, trip blank, and equipment blank contaminations, and are flagged "U,J" in Table 1A.

- Acetone in samples Y0GP9, Y0GQ8, Y0GQ9, Y0GR2, Y0GR2MS, Y0GR2MSD, and Y0GR5
- Chloroform in samples Y0GQ4 and Y0GR8
- Bromoform in sample Y0GR0

Acetone and chloroform were found in storage blank VHBLKLA at concentrations of 9 $\mu\text{g/L}$ and 0.5 $\mu\text{g/L}$, respectively. Bromoform was found in trip blank Y0GQ9 and equipment blank Y0GR4 at concentrations of 0.5 $\mu\text{g/L}$ and 0.5 $\mu\text{g/L}$, respectively. Results for the samples listed above are considered nondetected and estimated (U,J) and the quantitation limits have been increased according to the blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 10 times the amount in any associated blank for the common laboratory contaminants or 5 times the amount for other compounds. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result (U,J). If the sample result is less than the CRQL, the result is reported as nondetected (U,J) at the CRQL.

A storage blank is laboratory reagent water stored in a vial in the same area as the field samples. The storage blank is used to determine the level of contamination introduced by the laboratory during sample storage prior to analysis.

A trip blank is laboratory reagent water which is shipped from the laboratory to the field with the empty sample containers and back to the laboratory with the filled sample containers. A trip blank is intended to detect contaminants introduced during the transport of the samples to the laboratory, although any laboratory introduced contamination will also be present. Contaminants that are found in the trip blank which are absent in the laboratory blank could be indicative of a problem in transportation, storage, the bottle preparation procedure, or other indeterminate error.

An equipment blank is clean water that has been collected as a sample using decontaminated sampling equipment. The intent of an equipment blank is to monitor for contamination introduced by the sampling activity, although any laboratory introduced contamination will also be present.

B. Detected results and quantitation limits for the following analytes are qualified as estimated due to large percent differences (%Ds) in the continuing calibrations, and are flagged "J" in Table 1A.

- Bromomethane in samples Y0GP9, Y0GQ0, Y0GQ1, Y0GQ4, Y0GQ5, and method blank VBLKLY
- 2-Butanone in samples Y0GR1, Y0GR2, Y0GR2MS, Y0GR2MSD, Y0GR3, Y0GR4, Y0GR5, Y0GR8, and VBLKLA

A percent difference of -31.9% was observed for bromomethane in the continuing calibration performed on June 3, 2002. A percent difference of +32.6% was observed for 2-butanone in the continuing calibration performed on June 5, 2002. These values exceed the ±30.0% validation criterion.

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

C. Detected results for the following analytes are qualified as estimated due to high analyte concentration, and are flagged "J" in Table 1A.

- Methyl tert-butyl ether and trichloroethene in sample Y0GR8

Concentrations of methyl tert-butyl ether and trichloroethene in the undiluted analysis of the sample were 32 µg/L and 26 µg/L, respectively. These values exceed the 25 µg/L calibration range. The laboratory reanalyzed the sample at a 100-fold dilution, thus diluting out these analytes.

Results reported in Table 1A for these analytes are from the undiluted sample. These values are considered to be qualitatively acceptable but quantitatively questionable and should be considered as the minimum concentrations at which these analytes are present in the sample.

D. In the analysis of the field duplicate pairs, the following outliers were obtained for the analytes listed below.

Analyte	Y0GQ1 (D1)	Y0GQ2 (D1)	RPD
	Conc. µg/L	Conc. µg/L	
1,1-Dichloroethene	25U	21	N/A
Carbon tetrachloride	25U	31	N/A
Chloroform	25U	180	N/A

Analyte	Y0GR8 (D2)	Y0GR9 (D2)	RPD
	Conc. µg/L	Conc. µg/L	
Dichlorodifluoromethane	3	10U	N/A
Methyl tert-butyl ether	32	22	37%
1,1-Dichloroethane	0.6	10U	N/A
1,1,1-Trichloroethane	2	10U	N/A
Benzene	0.9	10U	N/A

A relative percent differences (RPD) value is not calculated and is presented above as "N/A" when an analyte is detected in a sample but is nondetected (U) at the CRQL in the associated field duplicate sample. The effect the on data quality is not known.

It should be noted that sample Y0GR9 was analyzed at a 20-fold dilution, whereas sample Y0GR8 was analyzed undiluted. The lower concentrations detected in sample Y0GR8 were most likely diluted out in sample Y0GR9.

It should be noted that sample Y0GQ1 was analyzed at a 50-fold dilution, whereas sample Y0GQ2 was analyzed at a 20-fold dilution. The lower concentrations detected in sample Y0GQ2 were most likely diluted out in sample Y0GQ1.

A relative percent difference (RPD) of 37% was obtained for methyl tert-butyl ether in the analysis of field duplicate pair Y0GR8 and Y0GR9. The value obtained for methyl tert-butyl ether in sample Y0GR8 exceeded the calibration range and is considered to be quantitatively questionable. The effect on data quality is not known.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results of the analysis of the field duplicate pair may be due to the sample matrix or poor sampling or analysis techniques.

- E. Sample Y0GQ5 was analyzed at a 10-fold dilution due to the high levels of trichlorofluoromethane and 1,1,2-trichloro-1,2,2-trifluoroethane. Results for trichlorofluoromethane and 1,1,2-trichloro-1,2,2-trifluoroethane are reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.
- F. Sample Y0GQ8 was analyzed at a 20-fold dilution due to the high levels of tetrachloroethene. Results for tetrachloroethene are reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.
- G. Sample Y0GR8 was analyzed at a 100-fold dilution due to the high levels of trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, and tetrachloroethene. Results for trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, and tetrachloroethene are reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.
- H. Samples Y0GQ0, Y0GQ1, Y0GQ2, Y0GQ3, Y0GQ4, Y0GQ7, Y0GR0, Y0GR1, Y0GR2, Y0GR2MS, Y0GR2MSD, Y0GR3, Y0GR6, and Y0GR7 were analyzed at dilutions due to the high levels of target analytes. The CRQLs listed for these samples in Table 1A have been multiplied by the dilution factors.

ANALYTICAL RESULTS

Tier 3 Table 1A

Case No 30499 SDG No Y0GP9
 Site OMEGA RECOVERY SERV
 Lab CLAYTON GROUP SERVICES INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 07/17/2002

QUALIFIED DATA
 Concentration in ug/L

Analysis Type Low Level Water Samples
 For Volatiles

Station Location	GW202-MW01A-2005			GW202-MW01A-0055			GW202-MW01B-0080			GW202-MW01B-1080			GW202-MW05A-0049			GW202-MW02A-0055			GW202-OW07-0081		
Sample ID	Y0GP9 TB			Y0GQ0			Y0GQ1 D1			Y0GQ2 D1			Y0GQ3			Y0GQ4			Y0GQ5		
Collection Date	05/28/2002			05/28/2002			05/28/2002			05/28/2002			05/28/2002			05/28/2002			05/29/2002		
Dilution Factor	1 0			50 0			50 0			20 0			100 0			500 0			1 0		
Volatiles Compound	Result	Val	Com	Result	Val	Com															
Dichlorodifluoromethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Chloromethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Vinyl Chloride	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Bromomethane	0.5U	J	B	25U		BH	25U	J	BH	10U		H	50U		H	250U		BH	0.5U	J	B
Chloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Trichlorofluoromethane	0.5U			25U		H	25U		H	10U		H	380		H	680		H	48		
1,1-Dichloroethane	0.5U			40		H	25U		DH	21		DH	1100		H	2200		H	1		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5U			25U		H	25U		H	10U		H	1100		H	1900		H	62		
Acetone	* 8U	J	A	250U		H	250U		H	100U		H	500U		H	2500U		H	5U		
Carbon Disulfide	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Methyl Acetate	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Methylene Chloride	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
trans-1,2-Dichloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Methyl tert-Butyl Ether	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,1-Dichloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
cis-1,2-Dichloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
2-Butanone	5U			250U		H	250U		H	100U		H	500U		H	2500U		H	5U		
Bromochloromethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Chloroform	0.5U			25U		H	25U		DH	180		DH	1200		H	860U		AH	0.5U		
1,1,1-Trichloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Cyclohexane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Carbon Tetrachloride	0.5U			25U		H	25U		DH	31		DH	180		H	250U		H	0.5U		
Benzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,2-Dichloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Trichloroethene	0.5U			440		H	210		H	200		H	830		H	830		H	2		
Methylcyclohexane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,2-Dichloropropane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Bromodichloromethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
cis-1,3-Dichloropropene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
4-Methyl-2-pentanone	5U			250U		H	250U		H	100U		H	500U		H	2500U		H	5U		
Toluene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
trans-1,3-Dichloropropene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,1,2-Trichloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Tetrachloroethene	0.5U			45		H	29		H	27		H	1400		H	3800		H	7		
2-Hexanone	5U			250U		H	250U		H	100U		H	500U		H	2500U		H	5U		
Dibromochloromethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,2-Dibromoethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		

* trip blank
 antimicrobial

H analyzed C dilutions
 due to high tar levels
 of target analytes

- Did not mark compounds/samples
 w/ calibration problems

ANALYTICAL RESULTS

Tier 3 Table 1A

Case No 30499 SDG No Y0GP9
 Site OMEGA RECOVERY SERV
 Lab CLAYTON GROUP SERVICES INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 07/17/2002

QUALIFIED DATA
 Concentration in ug/L

Analysis Type Low Level Water Samples
 For Volatiles

Station Location	GW202 MW01A 2005			GW202 MW01A-0055			GW202 MW01B-0080			GW202-MW01B-1080			GW202-MW05A-0049			GW202 MW02A-0055			GW202 OW07-0081		
Sample ID	Y0GP9	TB		Y0GQ0			Y0GQ1	D1		Y0GQ2	D1		Y0GQ3			Y0GQ4			Y0GQ5		
Collection Date	05/28/2002			05/28/2002			05/28/2002			05/28/2002			05/28/2002			05/28/2002			05/29/2002		
Dilution Factor	1.0			50.0			50.0			20.0			100.0			500.0			1.0		
Volatile Compound	Result	Val	Com	Result	Val	Com															
Chlorobenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Ethylbenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Xylenes (total)	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Styrene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Bromoforn	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
Isopropylbenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,1,2,2-Tetrachloroethane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,3-Dichlorobenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,4-Dichlorobenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,2,4-Trichlorobenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,2-Dibromo-3-chloropropane	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,2,4-Trichlorobenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		
1,2,3-Trichlorobenzene	0.5U			25U		H	25U		H	10U		H	50U		H	250U		H	0.5U		

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL Contract Required Quantitation Limit N/A - Not Applicable NA - Not Analyzed

D1 D2 etc - Field Duplicate Pairs

FB Field Blank EB - Equipment Blank TB - Trip Blank BG Background Sample

ANALYTICAL RESULTS

Case No. : 30499

SDG No. : Y0GP9

Tier 3 Table 1A

Site : OMEGA RECOVERY SERV.

Lab : CLAYTON GROUP SERVICES INC.

Reviewer : DENISE MCCAFFREY, ESAT/LDC

Date : 07/17/2002

QUALIFIED DATA

Analysis Type : Low Level Water Samples

Concentration in ug/L

For Volatiles

Station Location :	GW202-OW07-2006			GW202-OW1A-0080			GW202-OW1B-0116			GW202-OW8-2007			GW202-OW8-0075			GW202-OW4A-0073			GW202-OW4B-0125		
Sample ID :	Y0GQ8 TB			Y0GQ7			Y0GQ8			Y0GQ9 TB			Y0GR0			Y0GR1			Y0GR2		
Collection Date :	05/29/2002			05/29/2002			05/29/2002			05/30/2002			05/30/2002			05/30/2002			05/30/2002		
Dilution Factor :	1.0			5000.0			1.0			1.0			2000.0			2.5			2.5		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Chloromethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Vinyl Chloride	0.5U			2500U		H	2			0.5U			1000U		H	1U		H	1U		H
Bromomethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Chloroethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Trichlorofluoromethane	0.5U			2500U		H	0.7			0.5U			1000U		H	3		H	2		H
1,1-Dichloroethane	0.5U			2500U		H	4			0.5U			2400		H	15		H	5		H
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5U			2500U		H	3			0.5U			2700		H	8		H	17		H
Acetone	5U			25000U		H	* 6U	J	A	* 8U	J	A	10000U		H	13U		H	* 180U	J	AH
Carbon Disulfide	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Methyl Acetate	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Methylene Chloride	0.5U			2500U		H	1			0.5U			1000U		H	1U		H	1U		H
trans-1,2-Dichloroethene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Methyl tert-Butyl Ethel	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
1,1-Dichloroethane	0.5U			2500U		H	1			0.5U			1000U		H	1U		H	1U		H
cis-1,2-Dichloroethene	0.5U			2500U		H	0.9			0.5U			1000U		H	1U		H	1U		H
2-Butanone	5U			25000U		H	5U			5U			10000U		H	13U	J	BH	13U	J	BH
Bromochloromethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Chloroform	0.5U			2500U		H	0.5U			0.5U			1000U		H	28		H	1U		H
1,1,1-Trichloroethane	0.5U			3700		H	9			0.5U			1000U		H	1U		H	1U		H
Cyclohexane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Carbon Tetrachloride	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Benzene	0.5U			2500U		H	2			0.5U			1000U		H	1U		H	1U		H
1,2-Dichloroethane	0.5U			2500U		H	1			0.5U			1000U		H	1U		H	1U		H
Trichloroethene	0.5U			2500U		H	6			0.5U			1100		H	33		H	2		H
Methylcyclohexane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
1,2-Dichloropropane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Bromodichloromethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
cis-1,3-Dichloropropene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
4-Methyl-2-pentanone	5U			25000U		H	5U			5U			10000U		H	13U		H	13U		H
Toluene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
trans-1,3-Dichloropropene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
1,1,2-Trichloroethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
Tetrachloroethene	0.5U			59000		H	190		F	0.5U			14000		H	20		H	28		H
2-Hexanone	5U			25000U		H	5U			5U			10000U		H	13U		H	13U		H
Dibromochloromethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H
1,2-Dibromoethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U		H	1U		H

* trip blank contamination

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No 30499 SDG No Y0GP9
Site OMEGA RECOVERY SERV
Lab CLAYTON GROUP SERVICES INC
Reviewer DENISE MCCAFFREY ESAT/LDC
Date 07/17/2002

QUALIFIED DATA
Concentration in ug/L

Analysis Type Low Level Water Samples
For Volatiles

Station Location	GW202-OW07 2006			GW202-OW1A-0080			GW202 OW1B-0116			GW202 OW8 2007			GW202 OW8-0075			GW202-OW4A-0073			GW202 OW4B 0125		
Sample ID	Y0GQ6	TB		Y0GQ7			Y0GQ8			Y0GQ9	TB		Y0GR0			Y0GR1			Y0GR2		
Collection Date	05/29/2002			05/29/2002			05/29/2002			05/30/2002			05/30/2002			05/30/2002			05/30/2002		
Dilution Factor	1.0			5000.0			1.0			1.0			2000.0			2.5			2.5		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
Benzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
Xylenes (total)	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
Xylenes	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
Bromofom	0.5U			2500U		H	0.5U			0.5			1200U	J	AH	1U			1U		H
Isopropylbenzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
1,1,2,2-Tetrachloroethane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
1,3-Dichlorobenzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
1,4-Dichlorobenzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
1,2-Dichlorobenzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
1,2-Dibromo-3-chloropropane	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
1,2,4-Trichlorobenzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H
1,2,3-Trichlorobenzene	0.5U			2500U		H	0.5U			0.5U			1000U		H	1U			1U		H

Val Validity Refer to Data Qualifiers in Table 1B

Com Comments Refer to the Corresponding Section in the Narrative for each letter
CRQL Contract Required Quantitation Limit N/A Not Applicable NA Not Analyzed

D1 D2 etc - Field Duplicate Pairs

FB Field Blank EB Equipment Blank TB - Trip Blank BG - Background Sample

field blank contaminated

ANALYTICAL RESULTS

Case No 30499 SDG No Y0GP9
 Site OMEGA RECOVERY SERV
 Lab CLAYTON GROUP SERVICES INC
 Reviewer DENISE MCCAFFREY, ESAT/LDC
 Date 07/17/2002

Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type : Low Level Water Samples
 For Volatiles

Station Location	GW202-OW5-0048			GW202-OW5-4001			GW202-OW3-2008			GW202-OW3-0080			GW202-OW2-0078			GW202-OW6-0048			GW202-OW4B-0125		
Sample ID	Y0GR3			Y0GR4 EB			Y0GR5 TB			Y0GR6			Y0GR7			Y0GR8 D2			Y0GR2MS		
Collection Date	05/30/2002			05/30/2002			05/31/2002			05/31/2002			05/31/2002			05/31/2002			05/30/2002		
Dilution Factor	200			10			10			2000			1000			10			25		
Volatile Compound	Result	Val	Com	Result	Val	Com															
Dichlorodifluoromethane	10U		H	0.5U			0.5U			100U		H	50U		H	2		D	1U		H
Chloromethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Vinyl Chloride	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Bromomethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Chloroethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Trichlorofluoromethane	32		H	0.5U			0.5U			330		H	390		H	380		G	2		H
1,1-Dichloroethene	10U		H	0.5U			0.5U			1500		H	550		H	240		G	22		H
1,1,2-Trichloro-1,2,2-trifluoroethane	180		H	0.5U			0.5U			530		H	1800		H	780		G	17		H
Acetone	100U		H	5U			8U	J	A	1000U		H	500U		H	5U			180U	J	AH
Carbon Disulfide	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Methyl Acetate	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Methylene Chloride	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
trans-1,2-Dichloroethene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Methyl tert-Butyl Ether	10U		H	0.5U			0.5U			100U		H	50U		H	50U		J	1U		H
1,1-Dichloroethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.6		CD	1U		H
cis-1,2-Dichloroethene	20		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
2-Butanone	100U	J	BH	5U	J	B	5U	J	B	1000U		H	500U		H	5U	J	B	13U	J	BH
Bromochloromethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Chloroform	10U		H	0.5U			0.5U			100U		H	50U		H	5U	J	A	1U		H
1,1,1-Trichloroethane	10U		H	0.5U			0.5U			100U		H	50U		H	2		D	1U		H
Cyclohexane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Carbon Tetrachloride	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Benzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.9		D	15		H
1,2-Dichloroethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Trichloroethene	390		H	0.5U			0.5U			180		H	180		H	28	J	C	15		H
Methylcyclohexane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,2-Dichloropropane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Bromodichloromethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
cis-1,3-Dichloropropene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
4-Methyl-2-pentanone	100U		H	5U			5U			1000U		H	500U		H	5U			13U		H
Toluene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			14		H
trans-1,3-Dichloropropene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,1,2-Trichloroethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Tetrachloroethene	150		H	0.5U			0.5U			1700		H	1000		H	150		G	29		H
2-Hexanone	100U		H	5U			5U			1000U		H	500U		H	5U			13U		H
Dibromochloromethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,2-Dibromoethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H

* Contaminated blanks

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No 30499 SDG No Y0GP9
Site OMEGA RECOVERY SERV
Lab CLAYTON GROUP SERVICES INC
Reviewer DENISE MCCAFFREY ESAT/LDC
Date 07/17/2002

QUALIFIED DATA
Concentration in ug/L

Analysis Type Low Level Water Samples
For Volatiles

Station Location	GW202-OW5-0048			GW202-OW5-4001			GW202 OW3-2008			GW202-OW3-0080			GW202-OW2-0078			GW202-OW6-0048			GW202-OW4B-0125		
Sample ID	Y0GR3			Y0GR4 EB			Y0GR5 TB			Y0GR6			Y0GR7			Y0GR8 D2			Y0GR2MS		
Collection Date	05/30/2002			05/30/2002			05/31/2002			05/31/2002			05/31/2002			05/31/2002			05/30/2002		
Dilution Factor	20 0			1 0			1 0			200 0			100 0			1 0			2 5		
Volatile Compound	Result	Val	Com	Result	Val	Com															
Chlorobenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			13		H
Ethylbenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Xylenes (total)	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Styrene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
Bromoform	10U		H	0.5			0.5U			100U		H	50U		H	0.5U			1U		H
Isopropylbenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,1,2,2-Tetrachloroethane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,3-Dichlorobenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,4-Dichlorobenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,2-Dichlorobenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,2-Dibromo-3-chloropropane	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,2,4-Trichlorobenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H
1,2,3-Trichlorobenzene	10U		H	0.5U			0.5U			100U		H	50U		H	0.5U			1U		H

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit N/A - Not Applicable NA - Not Analyzed

D1 D2 etc - Field Duplicate Pairs

FB - Field Blank EB - Equipment Blank TB - Trip Blank BG - Background Sample

ANALYTICAL RESULTS

Case No 30489 SDG No Y0GP9
 Site OMEGA RECOVERY SERV
 Lab CLAYTON GROUP SERVICES INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 07/17/2002

Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type . Low Level Water Samples
 For Volatiles

Station Location Sample ID Collection Date Dilution Factor	GW202-OW4B-0125 Y0GR2MSD 05/30/2002 2.5			Method Blank VBLKLA 1.0			Method Blank VBLKLB 1.0			Method Blank VBLKLC 1.0			Method Blank VBLKLY 1.0			Method Blank VBLKLZ 1.0			Storage Blank VHBLKLA 1.0					
	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com			
Dichlorodifluoromethane	1U		H	0.5U			0.5U			0.5U														
Chloromethane	1U		H	0.5U			0.5U			0.5U														
Vinyl Chloride	1U		H	0.5U			0.5U			0.5U														
Bromomethane	1U		H	0.5U			0.5U			0.5U			0.5U	J	B	0.5U			0.5U			0.5U		
Chloroethane	1U		H	0.5U			0.5U			0.5U														
Trichlorofluoromethane	2		H	0.5U			0.5U			0.5U														
1,1-Dichloroethene	20		H	0.5U			0.5U			0.5U														
1,1,2-Trichloro-1,2,2-trifluoroethane	15		H	0.5U			0.5U			0.5U														
Acetone	180U	J	AH	5U			5U			9														
Carbon Disulfide	1U		H	0.5U			0.5U			0.5U														
Methyl Acetate	1U		H	0.5U			0.5U			0.5U														
Methylene Chloride	1U		H	0.5U			0.5U			0.5U														
trans-1,2-Dichloroethene	1U		H	0.5U			0.5U			0.5U														
Methyl tert-Butyl Ether	1U		H	0.5U			0.5U			0.5U														
1,1-Dichloroethane	1U		H	0.5U			0.5U			0.5U														
cis-1,2-Dichloroethene	1U		H	0.5U			0.5U			0.5U														
2-Butanone	13U	J	BH	5U	J	B	5U			5U			5U			5U			5U			5U		
Bromochloromethane	1U		H	0.5U			0.5U			0.5U														
Chloroform	1U		H	0.5U			0.5U			0.5														
1,1,1-Trichloroethane	1U		H	0.5U			0.5U			0.5U														
Cyclohexane	1U		H	0.5U			0.5U			0.5U														
Carbon Tetrachloride	1U		H	0.5U			0.5U			0.5U														
Benzene	14		H	0.5U			0.5U			0.5U														
1,2-Dichloroethane	1U		H	0.5U			0.5U			0.5U														
Trichloroethene	14		H	0.5U			0.5U			0.5U														
Methylcyclohexane	1U		H	0.5U			0.5U			0.5U														
1,2-Dichloropropane	1U		H	0.5U			0.5U			0.5U														
Bromodichloromethane	1U		H	0.5U			0.5U			0.5U														
cis-1,3-Dichloropropene	1U		H	0.5U			0.5U			0.5U														
4 Methyl-2 pentanone	13U		H	5U			5U			5U														
Toluene	13		H	0.5U			0.5U			0.5U														
trans-1,3-Dichloropropene	1U		H	0.5U			0.5U			0.5U														
1,1,2-Trichloroethane	1U		H	0.5U			0.5U			0.5U														
Tetrachloroethene	27		H	0.5U			0.5U			0.5U														
2-Hexanone	13U		H	5U			5U			5U														
Dibromochloromethane	1U		H	0.5U			0.5U			0.5U														
1,2-Dibromoethane	1U		H	0.5U			0.5U			0.5U														

* Blank contamination

ANALYTICAL RESULTS

Case No 30499 SDG No Y0GP9
 Site OMEGA RECOVERY SERV
 Lab CLAYTON GROUP SERVICES INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 07/17/2002

Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type : Low Level Water Samples
 For Volatiles

Station Location	GW202-OW4B-0125			Method Blank			Storage Blank														
Sample ID	Y0GR2MSD			VBLKLA			VBLKLB			VBLKLC			VBLKLY			VBLKLZ			VHBLKLA		
Collection Date	05/30/2002			10			10			10			10			10			10		
Dilution Factor	2.5			10			10			10			10			10			10		
Volatle Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	13		H	0.5U			0.5U														
Ethylbenzene	1U		H	0.5U			0.5U														
Xylenes (total)	1U		H	0.5U			0.5U														
Styrene	1U		H	0.5U			0.5U														
Bromoform	1U		H	0.5U			0.5U														
Isopropylbenzene	1U		H	0.5U			0.5U														
1,1,2,2-Tetrachloroethane	1U		H	0.5U			0.5U														
1,3-Dichlorobenzene	1U		H	0.5U			0.5U														
1,4-Dichlorobenzene	1U		H	0.5U			0.5U														
1,2-Dichlorobenzene	1U		H	0.5U			0.5U														
1,2-Dibromo-3-chloropropane	1U		H	0.5U			0.5U														
1,2,4-Trichlorobenzene	1U		H	0.5U			0.5U														
1,2,3-Trichlorobenzene	1U		H	0.5U			0.5U														

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit N/A - Not Applicable NA - Not Analyzed

D1 D2 etc - Field Duplicate Pairs

FB - Field Blank EB - Equipment Blank TB - Trip Blank BG - Background Sample

ANALYTICAL RESULTS

Case No 30499 SDG No Y0GP9
 Site OMEGA RECOVERY SERV
 Lab CLAYTON GROUP SERVICES INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 07/17/2002

Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type . Low Level Water Samples
 For Volatiles

Station Location	CRQL																					
Sample ID																						
Collection Date																						
Dilution Factor																						
Volatile Compound	Result	Val	Com																			
Chlorobenzene	0.5																					
Ethylbenzene	0.5																					
Xylenes (total)	0.5																					
Styrene	0.5																					
Bromoform	0.5																					
Isopropylbenzene	0.5																					
1,1,2,2-Tetrachloroethane	0.5																					
1,3-Dichlorobenzene	0.5																					
1,4-Dichlorobenzene	0.5																					
1,2-Dichlorobenzene	0.5																					
1,2-Dibromo-3-chloropropane	0.5																					
1,2,4-Trichlorobenzene	0.5																					
1,2,3-Trichlorobenzene	0.5																					

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit N/A - Not Applicable NA - Not Analyzed

D1, D2 etc - Field Duplicate Pairs

FB - Field Blank EB - Equipment Blank TB Trip Blank BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," February 1994.

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

1LCF
 LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
 DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services Contract 68-W-01-046

Y0GP9

Lab Code CLAYTN Case No. 30499 Client No. _____ SDG No. Y0GP9

Lab Sample ID: 02050973-001A Date Received: 05/29/2002

Lab File ID: L1029.D Date Analyzed: 06/03/2002

Purge Volume: 25 (ML) Dilution Factor: 1.00

GC Column DB-VRX ID: 0.25 (MM) Length: 60 (M)

Number TICs found: 7

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01		unknown (4.68)	4.68	3.6	J
02	1455-13-16	Methanol-d4 (<i>in method blank</i>)	5.52	54	BJN
03		unknown (8.19) (<i>column bleed</i>)	8.19	0.90	J
04	001066-40-6	Silanol, trimethyl ↓	10.02	2.8	NJ
05	0000-00-0	cis-1,3-Dichloropropene d4 (<i>in method blank</i>)	14.77	2.5	BJN
06		unknown (20.37)	20.37	1.0	BJ
07		unknown (22.27) ↓	22.27	0.80	BJ

SL, 7/16/02

ILCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ0

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-002A

Date Received: 05/29/2002

Lab File ID: L1023.D

Date Analyzed: 06/03/2002

Purge Volume: 25 (ML)

Dilution Factor: 50.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01		unknown (5.29)	5.29	55	J
02	1455-13-16	Methanol-d4	5.50 (in method blank)	1300	BJN
03	0000-00-0	cis-1,3-Dichloropropene-d4	14.77	130	BJN
04		unknown (20.37)	20.37	55	BJ
05		unknown (22.27)	22.27	45	BJ

SL, 7/16/02.

1LCF
 LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
 DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ1

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-003A

Date Received: 05/29/2002

Lab File ID: L1026.D

Date Analyzed: 06/03/2002

Purge Volume: 25 (ML)

Dilution Factor: 50.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
			(UG/L)	O
01	unknown (5.31)	5.31	30	J
02	Methanol-d4 (in method blank)	5.53	2500	BJN
03	cis-1,3-Dichloropropene-d4	14.77	120	BJN
04	unknown (22.28)	22.28	30	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ2

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-004A

Date Received: 05/29/2002

Lab File ID: L1084.D

Date Analyzed: 06/07/2002

Inj. Volume: 25 (ML)

Dilution Factor: 20.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found:

5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01		unknown (5.29)	5.29	110	J
02	1455-13-16	Methanol-d4 <i>(in method blank)</i>	5.50	960	BJN
03	0000-00-0	cis-1,3-Dichloropropene-d4	14.76	48	BJN
04	000000-00-0	n-Decane-D22	20.37	20	NJ
05		unknown (22.27)	22.27	14	BJ

SL, 7/16/02

ILCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ3

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-005A

Date Received: 05/29/2002

Lab File ID: L1085.D

Date Analyzed: 06/07/2002

Purge Volume: 25 (ML)

Dilution Factor: 100.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found:

5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
				(UG/L)	Q
01		unknown (5.29)	5.29	540	J
02	1455-13-16	Methanol-d4 (in method blank)	5.52	4900	BJN
03	0000-00-0	cis-1,3-Dichloropropene-d4	14.75	220	BJN
04		unknown (20.37)	20.37	90	BJ
05		unknown (22.27)	22.27	70	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ4

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-006A

Date Received: 05/29/2002

Lab File ID: L1028.D

Date Analyzed: 06/03/2002

Purge Volume: 25 (ML)

Dilution Factor: 500.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01		unknown (5.31)	5.31	350	J
02	1455-13-16	Methanol-d4 (in methanol blank)	5.52	27000	BJN
03	0000-00-0	cis-1,3-Dichloropropene-d4	14.77	1400	BJN
04		unknown (22.27)	22.27	350	BJ

56, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ5

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-012A

Date Received: 05/30/2002

Lab File ID: L1030.D

Date Analyzed: 06/03/2002

Inj. Volume: 25 (ML)

Dilution Factor: 1.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	1455-13-16	Methanol-d4 (in method blank)	5.52	51	BJN
02		unknown (6.89) Dichlorotrifluoroethane	6.89	61	J
03	0000-00-0	cis-1,3-Dichloropropene d4 (in method blank)	14.77	2.6	BJN
04		unknown (22.28)	22.28	0.60	J

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ6

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-013A

Date Received: 05/30/2002

Lab File ID: L1037.D

Date Analyzed: 06/04/2002

Purge Volume: 25 (ML)

Dilution Factor: 1.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01	1455-13-16	Methanol-d4 (in method blank)	5.52	51	BJN
02		unknown (10.02) (column bleed)	10.02	0.70	J
03	0000-00-0	cis-1,3-Dichloropropene-d4 (in method blank)	14.77	2.5	BJN
04		unknown (22.27)	22.27	0.60	BJ

SL, 7/6/02

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ7

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-014A

Date Received: 05/30/2002

Lab File ID: L1038.D

Date Analyzed: 06/04/2002

Purge Volume: 25 (ML)

Dilution Factor: 5,000.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		unknown (5.3)	5.30	3000	J
02	1455-13-16	Methanol-d4 <i>(in method blank)</i>	5.52	240000	BJN
03	0000-00-0	cis-1,3-Dichloropropene-d4	14.76	12000	BJN
04		unknown (20.37)	20.37	5000	BJ
05		unknown (22.27)	22.27	3500	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ8

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-015A

Date Received: 05/30/2002

Lab File ID: L1039.D

Date Analyzed: 06/04/2002

Purge Volume: 25 (ML)

Dilution Factor: 1.00

GC Column EB-VRX

ID: 0.25 (MM)

Length: 60 (M)

Number TICs found: 5

CAS NUMBER		COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01	1455-13-16	Methanol-d4 (in method blank)	5.52	41	BJN
02		unknown(6.9) Dichlorotrifluoroethane	6.90	0.80	J
03	0000-00-0	cis-1,3-Dichloropropene-d4 (in method blank)	14.77	2.3	BJN
04		unknown(20.37)	20.37	0.90	BJ
05		unknown(22.27)	22.27	0.70	BJ

SL, 7/6/02.

1LCP

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GQ9

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-016A

Date Received: 05/31/2002

Lab File ID: L1043.D

Date Analyzed: 06/04/2002

Purge Volume: 25 (ML)

Dilution Factor: 1.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01	1455-13-16 Methanol-d4 (in method blank)	5.51	53	BJN
02	unknown (8.17) (column bleed)	8.17	1.5	J
03	001066-40-6 Silanol, trimethyl-	10.02	3.5	NJ
04	0000-00-0 cis-1,3-Dichloropropene-d4 (in method blank)	14.78	2.4	BJN
05	000000-00-0 n-Decane-D22	20.37	1.0	NJ
06	unknown (22.27)	22.27	0.80	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR0

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-017A

Date Received: 05/31/2002

Lab File ID: L1044.D

Date Analyzed: 06/04/2002

Purge Volume: 25 (ML)

Dilution Factor: 2,000.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01	unknown (5.29)	5.29	3600	J
02	1455-13-16 Methanol-d4 (in method blank)	5.50	92000	BJN
03	0000-00-0 cis-1,3-Dichloropropene-d4	14.78	4400	BJN
04	unknown (20.37)	20.37	1800	BJ
05	unknown (22.27)	22.27	1400	BJ

SL, 7/16/02

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR1

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-018A

Date Received: 05/31/2002

Lab File ID: L1057.D

Date Analyzed: 06/05/2002

Purge Volume: 25 (ML)

Dilution Factor: 2.50

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	1455-13-16	Methanol-d4 <i>(in method blank)</i>	5.52	130	BJN
02	0000-00-0	cis-1,3-Dichloropropene-d4	14.78	5.8	BJN
03	000000-00-0	n-Decane-D22	26.37	2.5	NJ
04		unknown (22.27)	22.27	2.0	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR2

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-019A

Date Received: 05/31/2002

Lab File ID: L1054.D

Date Analyzed: 06/05/2002

Purge Volume: 25 (ML)

Dilution Factor: 2.50

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01	unknown (5.29)	5.29	1.3	J
02	1455-13-16 Methanol-d4 (in method blank)	5.52	120	BJN
03	unknown (7.61)	7.61	2.8	J
04	0000-00-0 cis-1,3-Dichloropropene-d4 (in method blank)	14.77	6.0	BJN
05	unknown (22.28)	22.28	2.5	BJ

SL, 7/6/02.

I L C F

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR3

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-020A

Date Received: 05/31/2002

Lab File ID: L1058.D

Date Analyzed: 06/05/2002

Purge Volume: 25 (ML)

Dilution Factor: 20.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	1455-13-16	Methanol-d4 (in methanol blank)	5.52	1100	BJN
02	0000-00-0	cis-1,3-Dichloropropene-d4	14.77	46	BJN
03		unknown (20.37)	20.37	20	BJ
04		unknown (22.27)	22.27	16	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR4

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-021A

Date Received: 05/31/2002

Lab File ID: L1060.D

Date Analyzed: 06/05/2002

Purge Volume: 25 (ML)

Dilution Factor: 1.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 6

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
				(UG/L)	Q
01	1455-13-16	Methanol-d4 (in method blank)	5.52	52	BJN
02		unknown (6.85) dichloro difluoroethane	6.85	1.6	J
03		unknown (10.02) carbon disulfide	10.02	0.50	J
04	0000-00-0	cis-1,3-Dichloropropene-d4 (in method blank)	14.78	2.4	BJN
05		unknown (20.37)	20.37	1.0	BJ
06		unknown (22.27)	22.27	0.70	BJ

SL, 7/16/02

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR5

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-022A

Date Received: 06/01/2002

Lab File ID: L1062.D

Date Analyzed: 06/05/2002

Purge Volume: 25 (ML)

Dilution Factor: 1.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01	Methanol-d4 (in method blank)	5.52	53	BJN
02	unknown (8.18) (column bleed)	8.18	1.4	J
03	Silanol, trimethyl-	10.01	3.0	NJ
04	cis-1,3-Dichloropropene-d4 (in method blank)	14.77	2.4	BJN
05	unknown (22.27)	22.27	0.60	BJ

SL, 7/12/02.

ILCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR6

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-023A

Date Received: 06/01/2002

Lab File ID: L1073.D

Date Analyzed: 06/06/2002

Purge Volume: 25 (ML)

Dilution Factor: 200.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01		unknown (5.29)	5.29	220	J
02	1455-13-16	Methanol-d4 <i>(in method blank)</i>	5.52	10000	BJN
03	0000-00-0	cis-1,3-Dichloropropene-d4	14.75	440	BJN
04		unknown (20.37)	20.37	200	BJ
05		unknown (22.27)	22.27	140	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR7

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-024A

Date Received: 06/01/2002

Lab File ID: L1074.D

Date Analyzed: 06/06/2002

Purge Volume: 25 (ML)

Dilution Factor: 100.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01		unknown (5.29)	5.29	110	J
02	1455-13-16	Methanol-d4 (in method blank)	5.53	5400	BJN
03	0000-00-0	cis-1,3-Dichloropropene-d4	14.77	240	BJN
04		unknown (22.27)	22.27	60	BJ

SL, 7/16/02.

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name Clayton Group Services

Contract 68-W-01-046

Y0GR8

Lab Code CLAYTN

Case No. 30499

Client No. _____

SDG No. Y0GP9

Lab Sample ID: 02050973-025A

Date Received: 06/01/2002

Lab File ID: L1063.D

Date Analyzed: 06/05/2002

Purge Volume: 25 (ML)

Dilution Factor: 1.00

GC Column DB-VRX

ID: 0.25

(MM)

Length: 60

(M)

Number TICs found: 8

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	O
01	1455-13-16	Methanol-d4 (<i>in method blank</i>)	5.52	50	BJN
02		unknown (5.94)	5.94	1.0	J
03	000354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	6.90	17	NJ
04	000076-12-0	Ethane, 1,1,2,2-tetrachloro-1,2-difluoro	12.72	1.5	NJ
05	0000-00-0	cis-1,3-Dichloropropene-d4 (<i>in method blank</i>)	14.78	2.3	BJN
06		unknown (20.37)	20.37	0.90	BJ
07	000135-98-8	Benzene, (1-methylpropyl)-	21.73	0.60	NJ
08		unknown (22.27) (<i>in method blank</i>)	22.27	0.80	BJ

SL, 7/16/02.

Tentatively Identified Alkanes of Volatiles Analysis

EPA Sample No.	n-Alkane (ug/L)	Branched Alkane (ug/L)	Cyclic Alkane (ug/L)
Y0GP9	0	0	0
Y0GQ0	0	0	0
Y0GQ1	0	0	0
Y0GQ2	0	0	0
Y0GQ3	0	0	0
Y0GQ4	0	0	0
Y0GQ5	0	0	0
Y0GQ5DL	0	0	0
Y0GQ6	0	0	0
Y0GQ7	0	0	0
Y0GQ8	0	0	0
Y0GQ8DL	0	0	0
Y0GQ9	0	0	0
Y0GR0	0	0	0
Y0GR1	0	0	0
Y0GR2	1	0	0
Y0GR2MS			
Y0GR2MSD			
Y0GR3	0	0	0
Y0GR4	0	0	0
Y0GR5	0	0	0
Y0GR6	0	0	0
Y0GR7	0	0	0
Y0GR8	0	7	0
Y0GR8DL	0	0	0
VBLKLA	0	0	0
VBLKLB	0	0	0
VBLKLC	0	0	0
VBLKLY	0	0	0
VBLKLZ	0	0	0
VHBLKLA	0	0	0
VIBLKLA	0	0	0

In Reference to
Case No. 30499, SDG No. YOGP9 and YOGR9

Contract Laboratory program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: July 16, 2002
Laboratory Name: Clayton Laboratory Services
Lab Contact: Karen Coonan
Region: 9
Regional Contact: Steve Remaley, CLP PO
ESAT Reviewer: Santiago Lee, ESAT/Laboratory Data Consultants
Call Initiated By: _____ Laboratory X Region

In reference to data for the following sample(s):
SDG No.: YOGP9 and YOGR9 (Volatiles)

Summary of Questions/issues Discussed:

The following items were noted during the review of this sample delivery group (SDG). Please respond within 7 days as specified in Section 2.2 of Exhibit B of the OLM04.2 Statement of Work (SOW). Send response and resubmissions to ICF Consulting/Laboratory Data Consultants, Environmental Services Assistance Team, Region 9, 1337 S. 46th Street, Building 201, Richmond, CA 94804, FAX 510-412-2304.

1. In order to fully validate the data packages, Region 9 requests the following information for all standards (calibration and QC): expiration date of standard, preparation date, lot number, standard sources, concentration and volume of spiking and LCS Solutions. Please provide the above listed data.

Summary of Resolution: To be determined.

Regional Contact Signature

Date of Resolution

Distribution: (original)ESAT; (1)Lab copy, (2)Regional Copy, (3)CLASS copy



ICF Consulting / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Nancy Riveland-Har
Remedial Project Manager
Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong *RF*
ESAT Project Officer
Quality Assurance (QA) Office, PMD-3

FROM: Doug Lindelof *[Signature]*
Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order No.: B01
Technical Direction No.: B0105128 Amendment 2

DATE: August 7, 2002

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

SITE: Omega Chem OU-2
SITE ACCOUNT NO.: 09 BC LA02
CERCLIS ID NO.: CAD042245001
CASE NO.: 30499
SDG NO.: Y0GW6
LABORATORY: A4 Scientific, Inc.
ANALYSIS: Volatiles
SAMPLES: 20 Water Samples
COLLECTION DATE: May 21, 22, 23, and 24, 2002
REVIEWER: Denise McCaffrey, ESAT/LDC

The comments and qualifications presented in this report have been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Ray Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
ESAT File

CLP PO: FYI Attention Action

SAMPLING ISSUES: Yes No

Data Validation Report

Case No.: 30499 . SDG No.: Y0GW6
Site: Omega Chem OU-2
Laboratory: A4 Scientific, Inc.
Reviewer: Denise McCaffrey, ESAT/LDC
Date: August 7, 2002

I. Case Summary

SAMPLE INFORMATION:

Samples: Y0GN0, Y0GN1, Y0GN2, Y0GN3, Y0GN4, Y0GN5,
Y0GN6, Y0GN7, Y0GN8, Y0GN9, Y0GP0, Y0GP1,
Y0GP2, Y0GP3, Y0GP4, Y0GP5, Y0GP6, Y0GP7,
Y0GP8, and Y0GW6
Concentration and Matrix: Low Level Water
Analysis: Volatiles
SOW: OLC03.2
Collection Date: May 21, 22, 23, and 24, 2002
Sample Receipt Date: April 4 and May 22, 23, and 25, 2002
Extraction Date: Not Applicable
Analysis Date: May 31 and June 1, 2, 3, and 4, 2002

FIELD QC:

Trip Blanks (TB): Y0GN1, Y0GN4, Y0GN9, and Y0GP4
Field Blanks (FB): Not Provided
Equipment Blanks (EB): Not Provided
Background Samples (BG): Not Provided
Field Duplicates (D1): Y0GN5 and Y0GN6

METHOD BLANKS AND ASSOCIATED SAMPLES:

VBLKEI: Y0GN2, Y0GN3DL, Y0GN4, Y0GP0, Y0GP3,
Y0GN2MS, and Y0GN2MSD
VBLKEJ: Y0GN0, Y0GN0DL, Y0GN1, and Y0GN3
VBLKEK: Y0GN5, Y0GN5DL, Y0GN6, Y0GN6DL, Y0GN7,
Y0GN7DL, Y0GN8, Y0GN9, and Y0GP3DL
VBLK13: Y0GP4, Y0GP5DL, Y0GP6DL, Y0GP7DL, and Y0GW6
VBLKEL: Y0GP1, Y0GP1DL, Y0GP2, and Y0GP2DL
VBLKEM: Y0GP5, Y0GP6, Y0GP7, and Y0GP8
VBLKEN: VHBLK01

TABLES:

- 1A: Analytical Results with Qualifications
- 1B: Data Qualifier Definitions for Organic Data Review
- 2: Calibration Summary

MS- Matrix Spike, MSD - Matrix Spike Duplicate, DL - Dilution

A, C, G, H, I

CLP PO ACTION:

Quantitation limits for several analytes in sample Y0GN6 are qualified as rejected (R) due to very low Deuterated Monitoring Compound (DMC) recoveries.

CLP PO ATTENTION:

- 1) Detected results for methylene chloride and acetone in several samples are qualified as nondetected and estimated (U,J) due to contamination in the method blanks and trip blanks.
- 2) Detected results and quantitation limits for several analytes are qualified as estimated (J) due to calibration problems.
- 3) Detected results and quantitation limits for several analytes are qualified as estimated (J) due to low DMC recoveries.

SAMPLING ISSUES:

Detected results for acetone are qualified as nondetected and estimated (U,J) due to contamination in trip blanks Y0GN1, Y0GN4, and Y0GN9.

ADDITIONAL COMMENTS:

Tentatively identified compounds (TICs) detected in the samples are reported on Form 1LCFs. Other than laboratory artifacts/contaminants (retention time = 6.5 minutes), TICs were detected in samples Y0GN2 and Y0GW6 (see attached Form 1LCFs).

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- USEPA Contract Laboratory Program Statement of Work for Low Concentration Organics Analysis, OLC03.2, December 2000; and
- USEPA Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review, June 2001.

II. Validation Summary

	Acceptable/Comment	
HOLDING TIMES	YES	
GC/MS TUNE/GC PERFORMANCE	YES	
INITIAL CALIBRATIONS	NO	D, E
CONTINUING CALIBRATIONS	NO	D, F
LABORATORY BLANKS	NO	C
FIELD BLANKS	NO	C
DEUTERATED MONITORING COMPOUNDS (DMCs)	NO	A, G
MATRIX SPIKE/DUPLICATES	NO	H
INTERNAL STANDARDS	YES	
COMPOUND IDENTIFICATION	YES	
COMPOUND QUANTITATION	YES	B, J
SYSTEM PERFORMANCE	YES	
FIELD DUPLICATE SAMPLE ANALYSIS	NO	I

III. Validity and Comments

- A. Quantitation limits for the following analytes are qualified as rejected due to very low DMC recoveries (<10%), and are flagged "R" in Table 1A.

{2-Butanone-d5}

- Acetone and 2-butanone in sample Y0GN6

{Chloroform-d}

- Bromochloromethane in sample Y0GN6

DMC recoveries for the analytes listed above are shown below.

<u>Sample</u>	<u>DMC</u>	<u>%Recovery</u>	<u>QC Limits</u>
Y0GN6	2-Butanone-d5	2	42-171
	Chloroform-d	1	80-123

Since the results are nondetected, false negatives may exist.

Deuterated Monitoring Compounds (DMCs) are organic compounds which are similar to the target analytes in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. All samples are spiked with DMCs prior to purging. DMCs provide information about both the laboratory performance on individual samples and the possible effects of the sample matrix on the analytical results.

- B. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

- C. The following results are qualified as nondetected and estimated due to method blank and trip blank contamination, and are flagged "U,J" in Table 1A.

- Methylene chloride in samples Y0GN9, Y0GP3, Y0GN2MS, and Y0GN2MSD
- Acetone in samples Y0GN2, Y0GN2MS, Y0GN2MSD, Y0GN6, and Y0GN7

Methylene chloride was found in method blanks VBLKEI, VBLKEJ, VBLKEK, VBLKEM, and VBLKEN at concentrations of 0.6 µg/L, 0.3 µg/L, 0.4 µg/L, 0.2 µg/L, and 0.3 µg/L, respectively. Acetone was found in trip blanks Y0GN1, Y0GN4, and Y0GN9 at concentrations of 6 µg/L, 5 µg/L, and 4 µg/L, respectively. Results for the samples listed above are considered nondetected and estimated (U,J) and the quantitation limits have been increased according to the blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 10 times the amount in any associated blank for the common laboratory contaminants or 5 times the amount for other compounds. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result (U,J). If the sample result is less than the CRQL, the result is reported as nondetected (U,J) at the CRQL.

Acetone concentrations detected in samples Y0GP1 and Y0GP3 are not qualified since they exceeded 10 times the amount in the associated trip blank (Y0GN9).

Methylene chloride has been commonly found as a contaminant in the field and in many laboratories. Although not detected in any of the associated blanks, the user should note that the methylene chloride detected in sample Y0GP4 may be an artifact.

Although toluene was detected in trip blanks Y0GN1, Y0GN4, Y0GN9, and Y0GP4 at concentrations of 0.3 $\mu\text{g/L}$, 0.4 $\mu\text{g/L}$, 0.4 $\mu\text{g/L}$, and 0.3 $\mu\text{g/L}$, respectively, no data are qualified because toluene was not detected in any of the samples associated with these blanks.

Although cis-1,3-dichloropropene was found in method blanks VBLKEI (0.4 $\mu\text{g/L}$) and VBLKEN (0.4 $\mu\text{g/L}$), 1,2,3-trichlorobenzene was found in method blanks VBLKEI (0.4 $\mu\text{g/L}$) and VBLKEM (0.5 $\mu\text{g/L}$), 1,2,4-trichlorobenzene was found in method blank VBLKEM (0.4 $\mu\text{g/L}$), and trans-1,3-dichloropropene was found in method blank VBLKEN (0.3 $\mu\text{g/L}$), no data are qualified because these analytes were not detected in any of the samples associated with the method blanks.

A laboratory method blank is laboratory reagent water analyzed with all reagents, DMCs, and internal standards and carried through the same sample preparation and analytical procedures as the field samples. The laboratory method blank is used to determine the level of contamination introduced by the laboratory during extraction and analysis.

A trip blank is laboratory reagent water which is shipped from the laboratory to the field with the empty sample containers and back to the laboratory with the filled sample containers. A trip blank is intended to detect contaminants introduced during the transport of the samples to the laboratory, although any laboratory introduced contamination will also be present. Contaminants that are found in the trip blank which are absent in the laboratory blank could be indicative of a problem in transportation, storage, the bottle preparation procedure, or other indeterminate error.

D. Detected results and quantitation limits for the following analytes are qualified as estimated due to low relative response factors (RRFs) in the initial and continuing calibrations, and are flagged "J" in Table 1A.

- Acetone in all samples and blanks
- 2-Butanone in samples Y0GN0, Y0GN1, Y0GN3, Y0GP1, Y0GP2, Y0GP5, Y0GP6, Y0GP7, and Y0GP8, storage blank VHBLK01, and method blanks VBLKEJ, VBLKEL, and VBLKEM

Average RRFs below the 0.05 validation criterion were observed for the analytes listed above in the initial calibration performed on May 22, 2002 (Table 2). RRFs below the 0.05 validation criterion were observed for the analytes listed above in the continuing calibrations performed on May 31, June 1, 2, 3, 4, and 5, 2002 (Table 2).

Detected results for the analytes listed above should be considered as the minimum concentrations at which these analytes are present in the samples. Where the results are nondetected, false negatives may exist.

It should be noted that the results for acetone in sample Y0GN6 were previously rejected. Please refer to Comment A.

The DMCs 2-butanone-d5 and 2-hexanone-d5 also had RRFs below the 0.05 validation criterion in the initial and continuing calibrations (Table 2). Quantitation of the analytes associated with these DMCs may have been affected by the low RRFs. See Comments A and G for a complete listing of sample data qualified by DMC results outside of recovery criteria.

The RRF evaluates instrument sensitivity and is used in the quantitation of target analytes.

E. Detected results and quantitation limits for the following analytes are qualified as estimated due to large relative standard deviations (RSDs) in the initial calibrations, and are flagged "J" in Table 1A.

- Acetone, methyl acetate, styrene, isopropylbenzene, and 1,2-dibromo-3-chloropropane in samples Y0GP4 and Y0GW6 and method blank VBLK13
- 1,2,3-trichlorobenzene in all samples and blanks

Percent RSDs exceeding the $\leq 30.0\%$ validation criterion were observed for the analytes listed above in the initial calibrations performed on May 22 and 26, 2002 (Table 2).

The DMC 1,2-dichlorobenzene-d4 also had a RSD outside the $\leq 30.0\%$ validation criterion in the initial calibration (Table 2). Quantitation of the analytes associated with this DMC may have been affected by the RSD out of QC limits. See Comments A and G for a complete listing of sample data qualified by DMC results outside of recovery criteria.

The initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical sequence and of producing a linear calibration curve.

F. Detected results and quantitation limits for the following analytes are qualified as estimated due to large percent differences (%Ds) in the continuing calibrations, and are flagged "J" in Table 1A.

- Benzene, 1,2-dichloropropane, and 2-hexanone in samples Y0GP4 and Y0GW6 and method blank VBLK13
- 4-Methyl-2-pentanone in samples Y0GP4 and Y0GW6, storage blank VHBLK01, and method blanks VBLK13 and VBLKEN
- 1,2,3-Trichlorobenzene in samples Y0GN5, Y0GN6, Y0GN7, Y0GN8, Y0GN9, Y0GP4, Y0GP5, Y0GP6, Y0GP7, Y0GP8, and Y0GW6, storage blank VHBLK01, and method blanks VBLK13, VBLKEK, VBLKEM, and VBLKEN
- Methyl tert-butyl ether in samples Y0GN2, Y0GN2MS, Y0GN2MSD, Y0GN4, Y0GN5, Y0GN6, Y0GN7, Y0GN8, Y0GN9, Y0GP0, and Y0GP3, storage blank VHBLK01, and method blanks VBLKEI, VBLKEK, and VBLKEN
- 1,2-Dibromoethane in samples Y0GN2, Y0GN2MS, Y0GN2MSD, Y0GN4, Y0GP0, and Y0GP3 and method blank VBLKEI
- 1,2-Dibromo-3-chloropropane in samples Y0GN2, Y0GN2MS, Y0GN2MSD, Y0GN4, Y0GP0, Y0GP1, Y0GP2, Y0GP3, Y0GP5, Y0GP6, Y0GP7, and Y0GP8 and method blanks VBLKEI, VBLKEL, and VBLKEM
- Cyclohexane in samples Y0GN0, Y0GN1, Y0GN3, Y0GP1 and Y0GP2 and method blanks VBLKEJ, and VBLKEL

- Tetrachloroethene in samples Y0GN5, Y0GN6, Y0GN7, Y0GN8, and Y0GN9 and method blank VBLKEK
- Chloromethane and acetone in samples Y0GP1 and Y0GP2 and method blank VBLKEL
- 2-Butanone in samples Y0GP1, Y0GP2, Y0GP5, Y0GP6, Y0GP7, and Y0GP8, storage blank VHBLK01, and method blanks VBLKEL, VBLKEM, and VBLKEN
- 1,2,4-Trichlorobenzene in samples Y0GP5, Y0GP6, Y0GP7, and Y0GP8 and method blank VBLKEM

Percent differences exceeding the $\pm 30.0\%$ validation criterion were observed for the analytes listed above in the continuing calibrations performed on May 31, June 1, 2, 3, 4, and 5, 2002 (Table 2).

The DMCs vinyl chloride-d3, chloroethane-d5, 1,1-dichloroethene-d2, benzene-d6, 1,2-dichloropropane-d6, toluene d8, and 2-hexanone-d5 also had %Ds outside the $\pm 30.0\%$ validation criterion in the continuing calibrations (Table 2). Quantitation of the analytes associated with these DMCs may have been affected by the %Ds out of QC limits. See Comments A and G for a complete listing of sample data qualified by DMC results outside of recovery criteria.

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

- G. Detected results and quantitation limits for the following analytes are qualified as estimated due to DMC recoveries outside QC limits, and are flagged "J" in Table 1A.

{Toluene-d8}

- Trichloroethene, toluene, tetrachloroethene, ethylbenzene, xylenes, styrene, and ispropylbenzene in sample Y0GW6

{1,1-Dichloroethene-d2}

- Trans-1,2-dichloroethene and cis-1,2-dichloroethene in sample Y0GP2

{Chloroform-d}

- 1,1-Dichloroethane, bromochloromethane, and chloroform in samples Y0GP2 and Y0GP8
- 1,1-Dichloroethane and chloroform in sample Y0GN6

{1,2-Dichloroethane-d4}

- Trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, methyl acetate, methylene chloride, methyl-tert-butyl ether, 1,1,1-trichloroethane, carbon tetrachloride, and 1,2-dichloroethane in sample Y0GP8

{trans-1,3-Dichloropropene-d4}

- cis-1,3-Dichloropropene, trans-1,3-dichloropropene, and 1,1,2-trichloroethane in sample Y0GP8

DMC recoveries outside QC limits for the analytes listed above are shown below.

<u>Sample</u>	<u>DMC</u>	<u>%Recovery</u>	<u>QC Limits</u>
Y0GW6	Toluene-d8	76	77-120
Y0GN6	Chloroform-d	1	80-123
Y0GP2	1,1-Dichloroethene-d2	64	65-130
	Chloroform-d	74	80-123
Y0GP8	Chloroform-d	78	80-123
	1,2-Dichloroethane-d4	76	78-129
	trans-1,3-Dichloropropene-d4	78	80-128

Detected results for the above listed analytes may be biased low. Where the results are nondetected, false negatives may exist.

- H. The matrix spike duplicate recoveries and relative percent differences (RPDs) for several analytes in QC samples Y0GN2MS and Y0GN2MSD did not meet the criteria for accuracy and precision specified in the SOW. Percent recoveries and RPDs for these analytes are presented below.

<u>Analyte</u>	<u>Y0GN2MSD</u>		<u>QC Limits</u>	
	<u>%Recovery</u>	<u>RPD</u>	<u>RPD</u>	<u>%Recovery</u>
1,1-Dichloroethene	146	---	---	61-145
Benzene	144	13	≤11	76-127
Trichloroethene	132	16	≤14	71-120
Toluene	138	---	---	76-125
Chlorobenzene	138	---	---	75-130

Results obtained may indicate poor laboratory technique or matrix effects which may interfere with accurate analysis. The effect on data quality is not known.

Matrix spike sample analysis provides information about the effect of the sample matrix on sample preparation and analysis.

- I. In the analysis of the field duplicate pairs, the following outliers were obtained for the analytes listed below.

<u>Analyte</u>	<u>Y0GN5 (D1)</u>	<u>Y0GN6 (D1)</u>	<u>RPD (<25%)</u>
	<u>Conc. µg/L</u>	<u>Conc. µg/L</u>	
1,1,2-Trichloro-1,2,2-trifluoroethane	1200	920	26
Bromodichloromethane	0.5U	0.2L	N/A

A relative percent differences (RPD) value is not calculated and is presented above as "N/A" when an analyte is detected in a sample at below the CRQL but is nondetected (U) at the CRQL in the field duplicate sample. The effect on data quality is not known.

A RPD of 26% was obtained for 1,1,2-trichloro-1,2,2-trifluoroethane in the analysis of field duplicate pair Y0GN5 and Y0GN6. The effect on data quality is not known.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results of the analysis of the field duplicate pair may be due to the sample matrix, method defects, or poor sampling or analysis techniques.

- J. Samples Y0GN0, Y0GP5, and Y0GP7 were analyzed at 5-fold, 10-fold, and 40-fold dilutions, respectively, due to the high levels of tetrachloroethene. Results for tetrachloroethene are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

Sample Y0GN3 was analyzed at a 80-fold dilution due to the high levels of trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, trichloroethene, and tetrachloroethene. Results for trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, trichloroethene, and tetrachloroethene are reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.

Samples Y0GN5 and Y0GN6 were analyzed at 100-fold dilutions due to the high levels of trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, chloroform, trichloroethene, and tetrachloroethene. Results for trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, chloroform, trichloroethene, and tetrachloroethene are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

Sample Y0GN7 was analyzed at a 10-fold dilution due to the high level of trichloroethene. The result for trichloroethene is reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.

Samples Y0GP1 and Y0GP3 were analyzed at 4-fold and 10-fold dilutions, respectively, due to the high levels of acetone. Results for acetone are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

Sample Y0GP2 was analyzed at a 40-fold dilution due to the high levels of trichloroethene and tetrachloroethene. Results for trichloroethene and tetrachloroethene are reported from the diluted sample in Table 1A; results for all other analytes are reported from the undiluted sample.

Case No.: 30499

SDG No.: Y0GW6

Tier 3 Table 1A

Site: OMEGA RECOVERY SERV.

Lab: A4 SCIENTIFIC, INC.

Reviewer: DENISE MCCAFFREY, ESAT/LDC

Date: 08/07/2002

QUALIFIED DATA

Analysis Type: Low Level Water Samples

Concentration in ug/L

For Volatiles

Station Location:	GW202-MW07A-0041	GW202-MW07A-2001	GW202-MW03A-0042	GW202-MW04A-0047	GW202-MW04B-2002	GW202-MW04B-1075	GW202-MW04B-0075														
Sample ID:	Y0GNO	Y0GN1 TB	Y0GN2	Y0GN3	Y0GN4 TB	Y0GN5 D1	Y0GN6 D1														
Collection Date:	05/21/2002	05/21/2002	05/21/2002	05/21/2002	05/22/2002	05/22/2002	05/22/2002														
Dilution Factor:	1.0	1.0	1.0	1.0	1.0	1.0	1.0														
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	0.5U			0.5U			0.5U			0.5U			0.5U			2			2		
Chloroform	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Vinyl Chloride	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Bromochloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Chloroethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Dichloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,1-Dichloroethene	0.5U			0.5U			0.5U			180	J		0.5U			1300		J	1100		J
1,1,1-Trichloroethene	0.5U			0.5U			0.5U			290	J		0.5U			1200		J	920		J
Acetone	5U	J	D	6	J	D	31U	J	CD	5U	J	D	5L	J	BD	5U			3U	R	ACD
Methyl Chloride	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Methyl Acetate	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Methylene Chloride	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
trans-1,2-Dichloroethene	0.5U			0.5U			0.5U			0.5U			0.5U			0.8			0.8		
Methyl tert-Butyl Ether	0.5U			0.5U			0.5U	J	F	0.5U			0.5U	J	F	4	J	F	4	J	F
1,1,1-Trichloroethane	0.5U			0.5U			0.5U			0.6			0.5U			4			4	J	G
cis-1,2-Dichloroethene	0.5U			0.5U			0.5U			0.5U			0.5U			12			12		
2-Butanone	5U	J	D	5U	J	D	5U			5U	J	D	5U			5U			5U	R	A
Bromochloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Chloroform	0.4L	J	B	0.5U			0.5U			9			0.5U			120	J		120	J	GJ
1,1,1-Trichloroethane	0.5U			0.5U			0.5U			0.7			0.5U			7			7		
Cyclohexane	0.5U	J	F	0.5U	J	F	0.5U			0.5U	J	F	0.5U			0.5U			0.5U		
Carbon Tetrachloride	0.5U			0.5U			0.5U			0.5U			0.5U			0.3L	J	B	0.3L	J	B
Benzene	0.5U			0.5U			0.5U			0.5L	J	B	0.5U			4			4		
1,2-Dichloroethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Trichloroethene	20			0.5U			0.5U			440	J		0.5U			480	J		480	J	
Methylcyclohexane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,2-Dichloropropane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Bromodichloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
cis-1,3-Dichloropropene	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1-Methyl-2-pentanone	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Toluene	0.5U			0.3L	J	B	0.5U			0.5U			0.4L	J	B	0.5U			0.5U		
trans-1,3-Dichloropropane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,1,2-Trichloroethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.8			0.6		
Tetrachloroethane	0.5U			0.5U			0.2L	J	B	260	J		0.5U			950	J	F	900	J	F
2-Hexanone	5U			5U			5U			5U			5U			5U			5U		
Bromochloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,2-Dibromoethane	0.5U			0.5U			0.5U	J	F	0.5U			0.5U	J	F	0.5U			0.5U		

* trip/method blank contamination

* rejected
 Δ lab error

• Lots of calibration issues - did not mark compounds flagged

X seems processing ??
 to flag/compound I

ANALYTICAL RESULTS

Tier 3 Table 1A

Case No.: 30489 SDG No.: Y0GW8
 Site: OMEGA RECOVERY SERV.
 Lab: A4 SCIENTIFIC, INC.
 Reviewer: DENISE MCCAFFREY, ESAT/LDC
 Date: 08/07/2002

QUALIFIED DATA
 Concentration in ug/L

Analysis Type: Low Level Water Samples
 For Volatiles

Station Location:	GW202-MW07A-0041			GW202-MW07A-2001			GW202-MW03A-0042			GW202-MW04A-0047			GW202-MW04B-2002			GW202-MW04B-1075			GW202-MW04B-0075		
Sample ID:	Y0GNO			Y0GN1 TB			Y0GN2			Y0GN3			Y0GN4 TB			Y0GN5 D1			Y0GN6 D1		
Collection Date:	05/21/2002			05/21/2002			05/21/2002			05/21/2002			05/22/2002			05/22/2002			05/22/2002		
Dilution Factor:	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	Result	Val	Com																		
Chlorobenzene	0.5U																				
Bromobenzene	0.5U																				
Xylenes (total)	0.5U																				
Bromoform	0.5U																				
1,1,2,2-Tetrachloroethane	0.5U																				
1,4-Dichlorobenzene	0.5U																				
1,2-Dibromo-3-chloropropane	0.5U			0.5U			0.5U	J	F	0.5U			0.5U	J	F	0.5U			0.5U		
1,2,3-Trichlorobenzene	0.5U	J	E	0.5U	J	EF	0.5U	J	EF												

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

PE - Performance Evaluation Sample

Case No.: 30499

SDG No.: Y0GW6

Tier 3 Table 1A

Site: OMEGA RECOVERY SERV.

Lab: A4 SCIENTIFIC, INC.

Reviewer: DENISE MCCAFFREY, ESAT/LDC

Date: 08/07/2002

QUALIFIED DATA

Analysis Type: Low Level Water Samples

Concentration in ug/L

For Volatiles

Station Location:	GW202-MW04C-0094			GW202-MW11A-0045			GW202-MW08A-2003			GW202-MW06B-0070			GW202-MW08C-0087			GW202-MW08A-0040			GW202-MW08D-0116		
Sample ID:	Y0GN7			Y0GN8			Y0GN9 TB			Y0GP0			Y0GP1			Y0GP2			Y0GP3		
Collection Date:	05/22/2002			05/22/2002			05/23/2002			05/23/2002			05/23/2002			05/23/2002			05/23/2002		
Dilution Factor:	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatiles Compound	Result	Val	Com																		
Dichlorodifluoromethane	0.5U																				
Chloromethane	0.5U																				
Vinyl Chloride	0.5U																				
Bromochloromethane	0.5U																				
Chloroethane	0.5U																				
Bromochloroethane	0.5U																				
1,1-Dichloroethene	2			0.5U			0.5U			3			0.5U			4			0.5U		
1,1,1-Trichloro-1,2,2,2-tetrafluoroethane	0.5U			0.4L		B	0.5U			0.2L	J	B	0.2L	J	B	0.6U			0.5U		
Acetone	3U	J	CD	5U	J	D	4L	J	BD	5U	J	D	170	J	DFJ	5U	J	DF	610	J	DJ
Carbon Disulfide	0.5U																				
Methyl Acetate	0.5U																				
Methylene Chloride	0.5U			0.5U			0.5U	J	C	0.5U			0.5U			0.5U			0.5U		
trans-1,2-Dichloroethene	0.5U			0.2L	J	BG	0.5U														
Methyl tert-Butyl Ether	0.5U		F	0.5U	J	F	0.5U	J	F	0.5U	J	F	0.5U			0.2L	J	B	0.6U	J	B
1,1-Dichloroethane	0.5U			0.5L	J	B	0.5U			0.5U			0.5U			0.5U	J	G	0.5U		
1,1,2-Dichloroethane	0.5U																				
2-Butanone	5U			5U			5U			5U	J	DF	5U	J	DF	5U	J	DF	5U		
Bromochloromethane	0.5U			0.5U	J	G	0.5U														
Chloroform	0.9			1			0.5U			0.4L	J	B	0.3L	J	B	0.4L	J	BG	0.5		
1,1,1-Trichloroethane	0.5U			0.5U	J	B	0.5U														
Cyclohexane	0.5U			0.5U			0.5U			0.5U			0.5U	J	F	0.5U	J	F	0.5U		
Carbon Tetrachloride	0.5U																				
Benzene	0.5U																				
1,2-Dichlorobenzene	0.5U																				
Trichloroethene	64		J	2			0.5U			2			3			96		J	15		
Methylcyclohexane	0.5U																				
1,2-Dichloropropane	0.5U																				
Bromodichloromethane	0.5U			0.2L	J	B	0.6U														
cis-1,3-Dichloropropene	0.5U			0.4L	J	B	0.5U														
2-Methyl-2-pentanone	5U			0.9L	J	B	5U														
Toluene	0.5U			0.5U			0.4L	J	B	0.5U			0.5U			0.5U			0.5U		
trans-1,2-Dichloropropene	0.5U																				
1,1,2-Trichloroethane	0.5U																				
Trichloroethene	18		F	8	J	F	0.5U	J	F	9			11			430		J	0.7		
2-Hexanone	5U																				
Bromochloroethane	0.5U			0.6			0.5U														
1,2-Dibromoethane	0.5U			0.5U			0.5U			0.5U	J	F	0.5U			0.5U			0.5U	J	F

* trip/method blank confirmation

Case No. : 30499 SDG No. : Y0GW8
 Site : OMEGA RECOVERY SERV.
 Lab : A4 SCIENTIFIC, INC.
 Reviewer : DENISE MCCAFFREY, ESAT/LDC
 Date : 08/07/2002

ANALYTICAL RESULTS
 Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type : Low Level Water Samples
 For Volatiles

Station Location :	GW202-MW04C-0094			GW202-MW11A-0045			GW202-MW08A-2003			GW202-MW08B-0070			GW202-MW08C-0087			GW202-MW08A-0040			GW202-MW08D-0118		
Sample ID :	Y0GN7			Y0GN8			Y0GN9 TB			Y0GPD			Y0GP1			Y0GP2			Y0GP3		
Collection Date :	05/22/2002			05/22/2002			05/23/2002			05/23/2002			05/23/2002			05/23/2002			05/23/2002		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	Result	Val	Com																		
Chlorobenzene	0.5U																				
Bromobenzene	0.5U																				
Xylenes (total)	0.5U			0.5U			0.5U			0.5U			0.8			0.5U			0.7		
Toluene	0.5U																				
Bromoform	0.5U																				
1,1,1-Trichloroethane	0.5U																				
1,1,2,2-Tetrachloroethane	0.5U																				
1,2-Dichlorobenzene	0.5U																				
1,4-Dichlorobenzene	0.5U																				
1,1,1-Trichloroethane	0.5U																				
1,2-Dibromo-3-chloropropane	0.5U			0.5U			0.5U			0.5U	J	F									
1,1,2-Trichloroethane	0.5U																				
1,2,3-Trichlorobenzene	0.5U	J	EF	0.5U	J	EF	0.5U	J	EF	0.5U	J	E									

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

PE - Performance Evaluation Sample

Case No. : 30499

SDG No. : Y0GW8

ANALYTICAL RESULTS

Site : OMEGA RECOVERY SERV.

Tier 3 Table 1A

Lab : A4 SCIENTIFIC, INC.

Reviewer : DENISE MCCAFFREY, ESAT/LDC

QUALIFIED DATA

Analysis Type : Low Level Water Samples

Date : 08/07/2002

Concentration in ug/L

For Volatiles

Station Location : GW202-MW09A-2004			GW202-MW09A-0032			GW202-MW09B-0054			GW202-MW08A-0042			GW202-MW10A-0057			Y0GW8			PE			GW202-MW03A-0042			
Sample ID : Y0GP4 TB			Y0GP5			Y0GP6			Y0GP7			Y0GP8									Y0GN2MS			
Collection Date : 05/24/2002			05/24/2002			05/24/2002			05/24/2002			05/24/2002									05/21/2002			
Dilution Factor : 1.0			1.0			1.0			1.0			1.0			1.0						1.0			
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com									
Dichlorodifluoromethane	0.5U			0.5U			0.5U			0.5U			0.5U			7			0.5U			0.5U		
Chloroethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Vinyl Chloride	0.5U			0.5U			0.5U			0.5U			0.5U			14			0.5U			0.5U		
Bromochloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Chloroethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Trichlorofluoromethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,1-Dichloroethene	0.5U			2			0.5U			4			4	J	G	5			7			0.5U		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5U			0.5U			0.3L	J	B	0.6			6	J	G	0.5U			0.5U			0.5U		
Acetone	0.5U	J	DE	5U	J	D	5U	J	D	5U	J	D	5U	J	D	5U	J	DE	35U	J	CD	0.5U		
Carbon Tetrachloride	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Methyl Acetate	0.5U	J	E	0.5U			0.5U			0.5U			0.5U	J	G	0.5U	J	E	0.5U			0.5U		
Methylenedichloride	0.5U		B	0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
trans-1,2-Dichloroethene	0.5U			0.5U			0.5U			0.5U			0.5U			2			0.5U			0.5U		
Methyl tert-Butyl Ether	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
1,1-Dichloroethane	0.5U			0.5U			0.5U			0.2L	J	B	0.2L	J	BG	2			0.5U			0.5U		
1,1,2-Dichloroethane	0.5U			0.7			0.5U			0.3L	J	B	1			0.5U			0.5U			0.5U		
2-Butanone	5U			5U	J	DF	5U	J	DF	5U	J	DF	5U	J	DF	5U	J	DF	5U			5U		
Bromochloromethane	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
Chloroform	0.5U			0.3L	J	B	0.3L	J	B	1			0.4L	J	BG	8			0.5U			0.5U		
Trichloroethane	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	2			0.5U			0.5U		
Cyclohexane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Carbon Tetrachloride	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
Benzene	0.5U	J	F	0.5U			0.5U			0.5U			0.5U			0.5U	J	F	8			0.5U		H
1,2-Dichloroethane	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
Trichloroethene	0.5U			7			2			4			20			3	J	G	6			0.5U		H
Methylcyclohexane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,2-Dichloropropane	0.5U	J	F	0.5U			0.5U			0.5U			0.5U			7	J	F	0.5U			0.5U		
Bromodichloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			4			0.5U			0.5U		
cis-1,3-Dichloropropene	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
4-Methylpentanone	5U	J	F	5U			5U			5U			5U	J	F	5U	J	F	5U			5U		
Toluene	0.3L	J	B	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	6			0.5U		
trans-1,3-Dichloropropene	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
1,1,2-Trichloroethane	0.5U			0.5U			0.5U			0.5U			0.5U	J	G	0.5U			0.5U			0.5U		
1,1,1-Trichloroethane	0.5U			89	J		20			340	J		16			4	J	G	0.5U			0.5U		
2-Hexanone	5U	J	F	5U			5U			5U			5U			5U	J	F	5U			5U		
Dibromochloromethane	0.5U			0.5U			0.5U			0.5U			0.5U			12			0.5U			0.5U		
1,2-Dibromoethane	0.5U			0.5U			0.5U			0.5U			0.5U			7			0.5U			0.5U	J	F

DMC

⊕ : % recovery
 : RPD did not meet criteria for accuracy & precision

Case No 30499 SDG No Y0GW6
 Site OMEGA RECOVERY SERV
 Lab A4 SCIENTIFIC, INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 08/07/2002

ANALYTICAL RESULTS
 Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type Low Level Water Samples
 For Volatiles

Station Location	GW202-MW08A-2004			GW202-MW08A-0032			GW202-MW09B-0054			GW202-MW08A-0042			GW202-MW10A-0057			Y0GW6	PE	GW202 MW03A-0042			
Sample ID	Y0GP4 TB			Y0GP5			Y0GP6			Y0GP7			Y0GP8					Y0GN2MS			
Collection Date	05/24/2002			05/24/2002			05/24/2002			05/24/2002			05/24/2002					05/21/2002			
Dilution Factor	1 0			1 0			1 0			1 0			1 0					1 0			
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com												
Chlorobenzene	0.5U			25			6														
Xylenes (total)	0.5U			0.5U	J	G	0.5U														
Bromofom	0.5U			21			0.5U														
1,1,2,2-Tetrachloroethane	0.5U			0.5U			0.5U														
1,4-Dichlorobenzene	0.5U			9			0.5U														
1,2-Dibromo-3-chloropropane	0.5U	J	E	0.5U	J	F	6	J	E	0.5U	J	F									
1,2,3-Trichlorobenzene	0.5U	J	EF	0.5U	J	EF	0.5U	J	E												

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit N/A - Not Applicable NA - Not Analyzed

D1 D2, etc - Field Duplicate Pairs

FB - Field Blank EB - Equipment Blank, TB - Trip Blank BG - Background Sample

PE - Performance Evaluation Sample

* DMC

ANALYTICAL RESULTS

Case No.: 30499

SDG No.: Y0GWS

Tier 3 Table 1A

Site: OMEGA RECOVERY SERV.

Lab: A4 SCIENTIFIC, INC.

Reviewer: DENISE MCCAFFREY, ESAT/LDC

Date: 08/07/2002

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples
For Volatiles

Station Location : GW202-MW03A-0042			Method Blank VBLKEI			Method Blank VBLKEJ			Method Blank VBLKEK			Method Blank VBLKEL			Method Blank VBLKEM			Method Blank VBLKEN			
Sample ID : Y0GN2MSD			1.0			1.0			1.0			1.0			1.0			1.0			
Collection Date : 05/21/2002																					
Dilution Factor : 1.0																					
Volatiles Compound	Result	Val	Com	Result	Val	Com															
Dichlorodifluoromethane	0.5U			0.5U																	
Chloroethene	0.5U			0.5U																	
Vinyl Chloride	0.5U			0.5U																	
Bromomethane	0.5U			0.5U																	
Chloroethane	0.5U			0.5U																	
Dichloromethane	0.5U			0.5U																	
1,1-Dichloroethene	7		H	0.5U			0.5U														
1,2-Dichloroethane	10.5U			0.5U																	
Acetone	34U	J	CD	5U	J	D	5U	J	D	5U	J	D	5U	J	DF	5U	J	D	5U	J	D
Methyl Ethyl Ketone	0.5U			0.5U																	
Methyl Acetate	0.5U			0.5U																	
Methyl Chloride	0.5U		C	0.5U			0.5U	J	B	0.5U	J	B									
trans-1,2-Dichloroethene	0.5U			0.5U																	
Methyl Bromide	0.5U	J	F	0.5U	J	F															
1,1-Dichloroethane	0.5U			0.5U																	
1,2-Dichloroethane	0.5U			0.5U																	
2-Butanone	5U			5U			5U	J	D	5U	J	D	5U	J	DF	5U	J	DF	5U	J	F
Bromochloromethane	0.5U			0.5U																	
Chloroform	0.5U			0.5U																	
1,1,1-Trichloroethane	0.5U			0.5U																	
Cyclohexane	0.5U			0.5U			0.5U	J	F	0.5U	J	F									
Carbon tetrachloride	0.5U			0.5U																	
Benzene	7		H	0.5U			0.5U														
1,2-Dichloroethane	0.5U			0.5U																	
Trichloroethene	7		H	0.5U			0.5U														
Methyl Cyclohexane	0.5U			0.5U																	
1,2-Dichloropropane	0.5U			0.5U																	
Bromodichloromethane	0.5U			0.5U																	
cis-1,3-Dichloropropene	0.5U			0.4L	J	B	0.5U			0.5U			0.5U			0.5U			0.4L	J	B
Methyl 2-pentanone	5U			5U	J	F															
Toluene	7		H	0.5U			0.5U														
trans-1,3-Dichloropropene	0.5U			0.3L	J	B															
1,1,2-Trichloroethane	0.5U			0.5U																	
Tetrachloroethene	0.2L	J	B	0.5U			0.5U			0.5U	J	F	0.5U			0.5U			0.5U		
2-Hexanone	5U			5U																	
Dibromochloromethane	0.5U			0.5U																	
1,2-Dibromoethane	0.5U	J	F	0.5U	J	F	0.5U			0.5U			0.5U			0.5U			0.5U		

* 70 recovery: RTD

Case No 30499 SDG No Y0GW6
 Site OMEGA RECOVERY SERV
 Lab A4 SCIENTIFIC INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 08/07/2002

ANALYTICAL RESULTS
 Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type Low Level Water Samples
 For Volatiles

Station Location Sample ID Collection Date Dilution Factor	GW202 MW03A-0042 Y0GN2MSD 05/21/2002 1.0			Method Blank VBLKEI 1.0			Method Blank VBLKEJ 1.0			Method Blank VBLKEK 1.0			Method Blank VBLKEL 1.0			Method Blank VBLKEM 1.0			Method Blank VBLKEN 1.0					
	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com			
Chlorobenzene	7		H	0.5U			0.5U																	
Xylenes (total)	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
Bromoform	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,1,2,2-Tetrachloroethane	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,4-Dichlorobenzene	0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U			0.5U		
1,2-Dibromo-3-chloropropane	0.5U	J	F	0.5U	J	F	0.5U	J	F	0.5U	J	F	0.5U	J	F	0.5U	J	F	0.5U	J	F	0.5U	J	F
1,2,3-Trichlorobenzene	0.5U	J	E	0.4L	J	BE	0.5U	J	E	0.5U	J	EF	0.5U	J	E	0.5L	J	BEF	0.5U	J	EF	0.5U	J	EF

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit N/A - Not Applicable NA - Not Analyzed

D1 D2 etc Field Duplicate Pairs

FB Field Blank EB - Equipment Blank TB Trip Blank BG - Background Sample

PE Performance Evaluation Sample

* 70 recovery & RPD

Case No 30499 SDG No Y0GW6
 Site OMEGA RECOVERY SERV
 Lab A4 SCIENTIFIC, INC
 Reviewer DENISE MCCAFFREY ESAT/LDC
 Date 08/07/2002

ANALYTICAL RESULTS
 Tier 3 Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type Low Level Water Samples
 For Volatiles

Station Location Sample ID Collection Date Dilution Factor	Method Blank VBLK13			Storage Blank VHBLK01			CRQL															
	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	
Volatile Compound																						
Chlorobenzene	0.5U			0.5U			0.5															
Xylenes (total)	0.5U			0.5U			0.5															
Bromoform	0.5U			0.5U			0.5															
1,1,2,2-Tetrachloroethane	0.5U			0.5U			0.5															
1,4-Dichlorobenzene	0.5U			0.5U			0.5															
1,2-Dibromo-3-chloropropane	0.5U	J	E	0.5U			0.5															
1,2,3-Trichlorobenzene	0.5U	J	EF	0.5U	J	EF	0.5															

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

PE - Performance Evaluation Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," February 1994.

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 2
Calibration Summary

Case No.: 30499 SDG No.: Y0GW6
 Site: Omega Chem OU-2
 Laboratory: A4 Scientific, Inc.
 Reviewer: Denise McCaffrey, ESAT/LDC
 Date: August 7, 2002

RELATIVE RESPONSE FACTORS

	<u>RRF</u>						
Analysis Date:	05/22/02	05/26/02	06/03/02	05/31/02	06/01/02	06/02/02	06/03/02
Analysis Time:	0909-1158	1129-1505	0937	1240	1429	1117	1135
GC/MS I.D.:	C-5973	E-5973	C-5973	E-5973	E-5973	E-5973	E-5973
<u>Analyte</u>	<u>Init.</u>	<u>Init.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>
Acetone	0.046	----	----	0.041	0.037	0.036	0.033
Methyl Acetate	----	----	----	----	----	0.049	----
2-Butanone	0.041	----	----	----	0.047	----	0.041
2-Butanone-d5	0.029	0.038	0.036	0.037	0.032	0.036	0.032
2-Hexanone-d5	0.025	0.046	0.025	0.035	0.040	0.037	0.033

	<u>RRF</u>	<u>RRF</u>
Analysis Date:	06/04/02	06/05/02
Analysis Time:	06/04/02	06/05/02
GC/MS I.D.:	E-5973	E-5973
<u>Analyte</u>	<u>Cont.</u>	<u>Cont.</u>
Acetone	0.036	0.035
2-Butanone	0.037	0.039
2-Butanone-d5	0.030	0.028
2-Hexanone-d5	0.033	0.024

PERCENT RELATIVE STANDARD DEVIATIONS

	<u>%RSD</u>	<u>%RSD</u>
Analysis Date:	05/22/02	05/26/02
Analysis Time:	0909-1158	1129-1505
GC/MS I.D.:	C-5973	E-5973
<u>Analyte</u>	<u>Init.</u>	<u>Init.</u>
Acetone	35.7	----
Methyl Acetate	31.4	----
Styrene	37.0	----
Isopropylbenzene	40.1	----
1,2-Dibromo-3-chloropropane	43.4	----
1,2,3-Trichlorobenzene	39.0	39.7
1,2-Dichlorobenzene-d4	32.1	----

Table 2
Calibration Summary

PERCENT DIFFERENCES

	%D	%D	%D	%D	%D
Analysis Date:	06//03/02	05/31/02	06/01/02	06/02/02	06/03/02
Analysis Time:	0937	1240	1429	1117	1135
GC/MS I.D.:	C-5973	E-5973	E-5973	E-5973	E-5973
<u>Analyte</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>
Chloromethane	----	----	----	----	+41.7
Acetone	----	----	----	----	-34.0
Methyl tert-butyl ether	----	-35.0	----	-30.2	----
2-Butanone	----	----	----	----	-30.5
Cyclohexane	----	----	+33.3	----	+35.0
Benzene	+35.2	----	----	----	----
1,2-Dichloropropane	+31.3	----	----	----	----
4-Methyl-2-pentanone	+33.6	----	----	----	----
Tetrachloroethene	----	----	----	+56.0	----
2-Hexanone	+37.3	----	----	----	----
1,2-Dibromoethane	----	-33.0	----	----	----
1,2-Dibromo-3-chloropropane	----	-37.0	----	----	-30.3
1,2,3-Trichlorobenzene	-32.3	----	----	-31.9	----
Vinyl Chloride-d3	+87.8	+137.3	+105.6	+115.5	+178.5
Chloroethane-d5	+69.0	+45.5	+41.1	+37.3	+82.8
1,1-Dichloroethene-d2	----	----	----	----	+39.8
Benzene-d6	+32.7	----	----	+32.1	+61.7
1,2-Dichloropropane-d6	+32.2	----	----	----	+37.0
Toluene-d8	----	----	----	----	+50.1

	%D	%D
Analysis Date:	06//04/02	06/05/02
Analysis Time:	0945	1015
GC/MS I.D.:	C-5973	E-5973
<u>Analyte</u>	<u>Cont.</u>	<u>Cont.</u>
Methyl tert-butyl ether	----	-32.8
2-Butanone	-37.3	-33.9
4-Methyl-2-pentanone	----	-31.3
1,2-Dibromo-3-chloropropane	-33.3	----
1,2,4-Trichlorobenzene	-32.1	----
1,2,3-Trichlorobenzene	-37.4	-34.6
Vinyl Chloride-d3	+106.0	+112.9
Chloroethane-d5	+44.5	+40.7
Benzene-d6	+62.1	+42.1
1,2-Dichloropropane-d6	+35.3	----
Toluene-d8	+53.1	+32.9
2-Hexanone-d5	----	-47.8

- = biased low ; + = biased high

Table 2
Calibration Summary

ASSOCIATED SAMPLES AND METHOD BLANKS

Init. 05/22/02 : Y0GP4, Y0GP5DL, Y0GP6DL, Y0GP7DL, Y0GW6, and method blank VBLK13

Init. 05/26/02: Y0GN0, Y0GN0DL, Y0GN1, Y0GN2, Y0GN3, Y0GN3DL, Y0GN4, Y0GN5, Y0GN5DL, Y0GN6, Y0GN6DL, Y0GN7, Y0GN7DL, Y0GN8, Y0GN9, Y0GP0, Y0GP1, Y0GP1DLL, Y0GP2, Y0GP2DL, Y0GP3, Y0GP3DL, Y0GP5, Y0GP6, Y0GP7, Y0GP8, Y0GN2MS, Y0GN2MSD, storage blank VHBLK01, and method blanks VBLKEI, VBLKEJ, VBLKEK, VBLKEL, VBLKEM, and VBLKEN

Cont. 06/03/02 (C-5973): Y0GP4, Y0GP5DL, Y0GP6DL, Y0GP7DL, Y0GW6, and method blank VBLK13

Cont. 05/31/02: Y0GN2, Y0GN2MS, Y0GN2MSD, Y0GN3DL, Y0GN4, Y0GP0, Y0GP3, and method blank VBLKEI

Cont. 06/01/02: Y0GN0, Y0GN0DL, Y0GN1, Y0GN3, and method blank VBLKEJ

Cont. 06/02/02: Y0GN5, Y0GN5DL, Y0GN6, Y0GN6DL, Y0GN7, Y0GN7DL, Y0GN8, Y0GN9, Y0GP3DL, and method blank VBLKEK

Cont. 06/03/02 (E-5973): Y0GP1, Y0GP1DL, Y0GP2, Y0GP2DL, and method blank VBLKEL

Cont. 06/04/02: Y0GP5, Y0GP6, Y0GP7, Y0GP8, and method blank VBLKEM

Cont. 06/05/02: storage blank VHBLK01 and method blank VBLKEN

1LCF
 LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
 DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS EPA SAMPLE NO.

Y0GN2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038
 Lab Code: A4 Case No.: 30499 Client No.: SDG No.: Y0GW6
 Lab Sample ID: 1626.003 Date Received: 05/22/2002
 Lab File ID: E0172 Date Analyzed: 05/31/2002
 Purge Volume: 25 (ML) Dilution Factor: 1.0
 GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)
 Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.93	0.62	J
02		UNKNOWN	6.46	1.9	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1LCF
 LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
 DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS EPA SAMPLE NO.

Y0GW6

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038
 Lab Code: A4 Case No.: 30499 Client No.: SDG No.: Y0GW6
 Lab Sample ID: 1622.002 Date Received: 05/21/2002
 Lab File ID: C5645 Date Analyzed: 06/03/2002
 Purge Volume: 25 (ML) Dilution Factor: 1.0
 GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)
 Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	5.90	23	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Data Qualifier Definitions

- J** The associated numerical value is an estimated quantity.
- UJ** The material was analyzed for, but not detected.
- N** Presumptive evidence of the presence of the material.
- NJ** Presumptive evidence of the presence of the material at an estimated quantity.
- R** The data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.
- M** Required information is missing.
- VS** Visual Inspection is required.

Case No	30499	Final Flag Results		Lab ID	CLAYTN
SDG No	Y0GR9	Protocol	BNA	File Name	Y0GR9

Sample No	SBLKW2	Y0GR9
Regional No		Y0GR9
Sample Location		GW202-OW6-10
		48

Sample Type	Method Blank	Routine
		Sample

Matrix/Level	Water/	Water/
Dilution Factor	1	1

Units	UG/L	UG/L
-------	------	------

Compound	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U
Phenol	5	U	5	U
bis(2-Chloroethyl)ether	5	U	5	U
2-Chlorophenol	5	U	5	U
2-Methylphenol	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U
Acetophenone	5	U	5	U
4-Methylphenol	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U
Hexachloroethane	5	U	5	U
Nitrobenzene	5	U	5	U
Isophorone	5	U	5	U
2-Nitrophenol	5	U	5	U
2,4-Dimethylphenol	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U
2,4-Dichlorophenol	5	U	5	U
Naphthalene	5	U	5	U
4-Chloroaniline	5	U	5	U
Hexachlorobutadiene	5	U	5	U
Caprolactam	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U
2-Methylnaphthalene	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U
2,4,5-Trichlorophenol	20	U	20	U
1,1'-Biphenyl	5	U	5	U
2-Chloronaphthalene	5	U	5	U
2-Nitroaniline	20	U	20	U
Dimethylphthalate	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U
Acenaphthylene	5	U	5	U
3-Nitroaniline	20	U	20	U

U substituted for M flags assigned due to missing Lab QA sample. Short on MS/MSDs due to change of labs during sampling event.

Case No 30499 Final Flag Results
 SDG No Y0GR9 Protocol BNA Lab ID CLAYTN
 File Name Y0GR9

Sample No SBLKW2 Y0GR9
 Regional No Y0GR9
 Sample Location GW202-OW6-10
 48
 Sample Type Method Blank Routine
 Sample
 Matrix/Level Water/ Water/
 Dilution Factor 1 1
 Units UG/L UG/L

Compound	Result	Flag	Result	Flag
Acenaphthene	5	U	5	U
2,4-Dinitrophenol	20	U	20	U
4-Nitrophenol	20	U	20	U
Dibenzofuran	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U
Diethylphthalate	5	U	5	U
Fluorene	5	U	5	U
4-Chlorophenyl-phenylether	5	U	5	U
4-Nitroaniline	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U
N-Nitrosodiphenylamine	5	U	5	U
1,2,4,5 Tetrachlorobenzene	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U
Hexachlorobenzene	5	U	5	U
Atrazine	5	U	5	U
Pentachlorophenol	5	U	5	U
Phenanthrene	5	U	5	U
Anthracene	5	U	5	U
Di-n-butylphthalate	5	U	5	U
Fluoranthene	5	U	5	U
Pyrene	5	U	5	U
Butylbenzylphthalate	5	U	5	U
3,3-Dichlorobenzidine	5	U	5	U
Benzo(a)anthracene	5	U	5	U
Chrysene	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	U
Di-n-octylphthalate	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U
Benzo(k)fluoranthene	5	U	5	U
Benzo(a)pyrene	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U
Dibenzo (a,h) - anthracene	5	U	5	U
Benzo (g,h,i) perylene	5	U	5	U

U substituted for M flags assigned due to missing Lab QA sample. Short on MS/MSDs due to change of labs during sampling event.

Case No 30499 Final Flag Results
 SDG No Y0GR9 Protocol PEST Lab ID CLAYTN
 File Name Y0GR9

Sample No PBLKW1 Y0GR9
 Regional No Y0GR9
 Sample Location GW202-OW6-10
 48
 Sample Type Method Blank Routine
 Sample
 Matrix/Level Water/ Water/
 Dilution Factor 1 1

Units	UG/L		UG/L	
Compound	Result	Flag	Result	Flag
alpha-BHC	0 01	U	0 01	U
beta-BHC	0 01	U	0 0084	J
delta-BHC	0 01	U	0 01	U
gamma-BHC (Lindane)	0 01	U	0 01	U
Heptachlor	0 01	U	0 01	U
Aldrin	0 01	U	0 01	U
Heptachlor epoxide	0 01	U	0 01	U
Endosulfan I	0 01	U	0 01	U
Dieldrin	0 02	U	0 02	U
4,4-DDE	0 02	U	0 02	U
Endrin	0 02	U	0 02	U
Endosulfan II	0 02	U	0 02	U
4,4-DDD	0 02	U	0 02	U
Endosulfan sulfate	0 02	U	0 02	U
4,4-DDT	0 02	U	0 02	U
Methoxychlor	0 1	U	0 1	U
Endrin ketone	0 02	U	0 02	U
Endrin aldehyde	0 02	U	0 02	U
alpha-Chlordane	0 01	U	0 01	U
gamma-Chlordane	0 01	U	0 01	U
Toxaphene	1	U	1	U
Aroclor-1016	0 2	U	0 2	U
Aroclor-1221	0 4	U	0 4	U
Aroclor-1232	0 2	U	0 2	U
Aroclor-1242	0 2	U	0 2	U
Aroclor-1248	0 2	U	0 2	U
Aroclor-1254	0 2	U	0 2	U
Aroclor-1260	0 2	U	0 2	U

U substituted for M flags assigned due to missing Lab QA sample. Short on MS/MSDs due to change of labs during sampling event

J substituted for M flag assigned in place of VS flag for beta-BHC detection below CRQL. %D between column results exceeded primary criteria.

Case No	30499	Final Flag Results				Lab ID	CLAYTN			
SDG No	Y0GP9	Protocol	BNA	File Name	Y0GP9					
Sample No	SBLKW1	SBLKW2		SBLKW3		SBLKW4		SBLKW5		
Regional No										
Sample Location										
Sample Type	Method Blank	Method Blank	Method Blank	Method Blank	Method Blank	Method Blank	Method Blank	Method Blank	Method Blank	
Matrix/Level	Water/	Water/	Water/	Water/	Water/	Water/	Water/	Water/	Water/	
Dilution Factor	1	1	1	1	1	1	1	1	1	
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U	5	U
Phenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethyl)ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	5	U	5	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	U	5	U	5	U
Hexachloroethane	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	U	5	U	5	U
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U

Final Flag Results
Protocol BNA

Case No 30499
SDG No Y0GP9

Lab ID CLAYTN
File Name Y0GP9

Sample No Regional No Sample Location	SBLKW1	SBLKW2	SBLKW3	SBLKW4	SBLKW5					
Sample Type	Method Blank									
Matrix/Level Dilution Factor	Water/ 1	Water/ 1	Water/ 1	Water/ 1	Water/ 1					
Units	UG/L	UG/L	UG/L	UG/L	UG/L					
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	20	U	20	U	20	U	20	U	20	U
4-Nitrophenol	20	U	20	U	20	U	20	U	20	U
Dibenzofuran	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Diethylphthalate	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U	20	U	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	U
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5 Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	U	5	U	5	U	5	U	5	U
Atrazine	5	U	5	U	5	U	5	U	5	U
Pentachlorophenol	5	U	5	U	5	U	5	U	5	U
Phenanthrene	5	U	5	U	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	U	5	U	5	U	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	5	U	5	U
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U
3,3-Dichlorobenzidine	5	U	5	U	5	U	5	U	5	U
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	18	J	12	J	5	U	5	U	5	U
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(k)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(a)pyrene	5	U	5	U	5	U	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	U	5	U	5	U
Dibenzo (a,h) - anthracene	5	U	5	U	5	U	5	U	5	U
Benzo (g,h,i) perylene	5	U	5	U	5	U	5	U	5	U

Case No		Final Flag Results				Lab ID		CLAYTN		
SDG No		Protocol		BNA		File Name		Y0GP9		
Sample No	SBLKW6	Y0GQ0	Y0GQ1	Y0GQ2	Y0GQ3					
Regional No		Y0GQ0	Y0GQ1	Y0GQ2	Y0GQ3					
Sample Location		GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW05A-0049					
Sample Type	Method Blank	Routine	Routine	Routine	Routine					
Matrix/Level	Water/	Water/	Water/	Water/	Water/					
Dilution Factor	1	1	1	1	1					
Units	UG/L	UG/L	UG/L	UG/L	UG/L					
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	R	5	UJ	1.3	J
Phenol	5	U	5	U	5	R	5	UJ	5	U
bis(2-Chloroethyl)ether	5	U	5	U	5	R	5	UJ	5	U
2-Chlorophenol	5	U	5	U	5	R	5	UJ	5	U
2-Methylphenol	5	U	5	U	5	R	5	UJ	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U	5	R	5	UJ	5	U
Acetophenone	5	U	5	U	5	R	5	UJ	5	U
4-Methylphenol	5	U	5	U	5	R	5	UJ	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	R	5	UJ	5	U
Hexachloroethane	5	U	5	U	5	R	5	UJ	5	U
Nitrobenzene	5	U	5	U	5	R	5	UJ	5	U
Isophorone	5	U	5	U	5	R	5	UJ	5	U
2-Nitrophenol	5	U	5	U	5	R	5	UJ	5	U
2,4-Dimethylphenol	5	U	5	U	5	R	5	UJ	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	R	5	UJ	5	U
2,4-Dichlorophenol	5	U	5	U	5	R	5	UJ	5	U
Naphthalene	5	U	5	U	5	R	5	UJ	5	U
4-Chloroaniline	5	U	5	U	5	R	5	UJ	5	U
Hexachlorobutadiene	5	U	5	U	5	R	5	UJ	5	U
Caprolactam	5	U	5	U	5	R	5	UJ	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	R	5	UJ	5	U
2-Methylnaphthalene	5	U	5	U	5	R	5	UJ	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	R	5	UJ	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	R	5	UJ	5	U
2,4,5-Trichlorophenol	20	U	20	U	20	R	20	UJ	20	U
1,1'-Biphenyl	5	U	5	U	5	R	5	UJ	5	U
2-Chloronaphthalene	5	U	5	U	5	R	5	UJ	5	U
2-Nitroaniline	20	U	20	U	20	R	20	UJ	20	U
Dimethylphthalate	5	U	5	U	5	R	5	UJ	5	U
2,6-Dinitrotoluene	5	U	5	U	5	R	5	UJ	5	U
Acenaphthylene	5	U	5	U	5	R	5	UJ	5	U
3-Nitroaniline	20	U	20	U	20	R	20	UJ	20	U

Y0GQ1 do not report. Exceeded expanded hold time.

Final Flag Results
Protocol: BNA

Case No 30499
SDG No Y0GP9

Lab ID CLAYTN
File Name Y0GP9

Sample No	SBLKW6	Y0GQ0	Y0GQ1	Y0GQ2	Y0GQ3
Regional No		Y0GQ0	Y0GQ1	Y0GQ2	Y0GQ3
Sample Location		GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW05A-0049
Sample Type	Method Blank	Routine Sample	Routine Sample	Routine Sample	Routine Sample
Matrix/Level	Water/	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1	1
Units	UG/L	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag								
Acenaphthene	5	U	5	U	5	R	5	UJ	5	U
2,4-Dinitrophenol	20	U	20	U	20	R	20	UJ	20	U
4-Nitrophenol	20	U	20	U	20	R	20	UJ	20	U
Dibenzofuran	5	U	5	U	5	R	5	UJ	5	U
2,4-Dinitrotoluene	5	U	5	U	5	R	5	UJ	5	U
Diethylphthalate	5	U	5	U	5	R	5	UJ	5	U
Fluorene	5	U	5	U	5	R	5	UJ	5	U
4-Chlorophenyl-phenylether	5	U	5	U	5	R	5	UJ	5	U
4-Nitroaniline	20	U	20	U	20	R	20	UJ	20	U
4,6-Dinitro-2-methylphenol	20	U	20	U	20	R	20	UJ	20	U
N-Nitrosodiphenylamine	5	U	5	U	5	R	5	UJ	5	U
1,2,4,5 Tetrachlorobenzene	5	U	5	U	5	R	5	UJ	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	R	5	UJ	5	U
Hexachlorobenzene	5	U	5	U	5	R	5	UJ	5	U
Atrazine	5	U	5	U	5	R	5	UJ	5	U
Pentachlorophenol	5	U	5	U	5	R	5	UJ	5	U
Phenanthrene	5	U	5	U	5	R	5	UJ	5	U
Anthracene	5	U	5	U	5	R	5	UJ	5	U
Di-n-butylphthalate	5	U	5	U	5	R	5	UJ	5	U
Fluoranthene	5	U	5	U	5	R	5	UJ	5	U
Pyrene	5	U	5	U	5	R	5	UJ	5	U
Butylbenzylphthalate	5	U	5	U	5	R	5	UJ	5	U
3,3-Dichlorobenzidine	5	U	5	U	5	R	5	UJ	5	U
Benzo(a)anthracene	5	U	5	U	5	R	5	UJ	5	U
Chrysene	5	U	5	U	5	R	5	UJ	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	U	5	R	5	UJ	5	U
Di-n-octylphthalate	5	U	5	U	5	R	5	UJ	5	U
Benzo(b)fluoranthene	5	U	5	U	5	R	5	UJ	5	U
Benzo(k)fluoranthene	5	U	5	U	5	R	5	UJ	5	U
Benzo(a)pyrene	5	U	5	U	5	R	5	UJ	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	R	5	UJ	5	U
Dibenzo (a,h) - anthracene	5	U	5	U	5	R	5	UJ	5	U
Benzo (g,h,i) perylene	5	U	5	U	5	R	5	UJ	5	U

Y0GQ1 do not report. Exceeds expanded hold time.

Maybe UJB for bis-2-ethylhexyl phthalate, Y0GQ0?

Case No		Final Flag Results				Lab ID		CLAYTN		
SDG No		Protocol		BNA		File Name		Y0GPN9		
Sample No	Y0GQ4	Y0GQ5	Y0GQ7	Y0GQ8	Y0GR0					
Regional No	Y0GQ4	Y0GQ5	Y0GQ7	Y0GQ8	Y0GR0					
Sample Location	GW202-MW02A-0055	GW202-OW07-081	GW202-OW1A-080	GW202-OW1B-0116	GW202-OW8-0075					
Sample Type	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample					
Matrix/Level	Water/	Water/	Water/	Water/	Water/					
Dilution Factor	1	1	1	1	1					
Units	UG/L	UG/L	UG/L	UG/L	UG/L					
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U	17	J
Phenol	5	U	5	U	5	U	5	U	45	J
bis(2-Chloroethyl)ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	5	U	5	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	U	5	U	5	U
Hexachloroethane	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	UJ	5	U	5	U	5	U	5	U
Naphthalene	5	UJ	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U	5	U	5	U
Hexachlorobutadiene	5	UJ	5	U	5	U	5	U	5	U
Caprolactam	5	UJ	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	UJ	5	U	5	U	5	U	5	U
2-Methylnaphthalene	5	UJ	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	5	UJ	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	UJ	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5	UJ	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	UJ	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5	UJ	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	UJ	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U

UJ substituted for VS flags assigned due to deuterated monitoring compound recovery below lower limit of criteria window.

Final Flag Results
Protocol BNA

Case No 30499
SDG No Y0GP9

Lab ID CLAYTN
File Name Y0GP9

Sample No	Y0GQ4	Y0GQ5	Y0GQ7	Y0GQ8	Y0GR0
Regional No	Y0GQ4	Y0GQ5	Y0GQ7	Y0GQ8	Y0GR0
Sample Location	GW202-MW02A-0055	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116	GW202-OW8-0075
Sample Type	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample
Matrix/Level	Water/	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1	1
Units	UG/L	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag								
Acenaphthene	5	UJ	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	20	U								
4-Nitrophenol	20	U								
Dibenzofuran	5	UJ	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	UJ	5	U	5	U	5	U	5	U
Diethylphthalate	5	UJ	5	U	5	U	5	U	5	UJ
Fluorene	5	UJ	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenylether	5	UJ	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U								
4,6-Dinitro-2-methylphenol	20	U	20	U	20	U	20	U	20	UJ
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5 Tetrachlorobenzene	5	UJ	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	UJ	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	UJ	5	U	5	U	5	U	5	U
Atrazine	5	UJ	5	U	5	U	5	U	5	U
Pentachlorophenol	5	UJ	5	U	5	U	5	U	5	U
Phenanthrene	5	U	5	U	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	UJ	5	U	5	U	5	U	5	UJ
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	5	U	5	U
Butylbenzylphthalate	5	UJ	5	U	5	U	5	U	5	UJ
3,3-Dichlorobenzidine	5	U	5	U	5	U	5	UJ	5	U
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	UJ	5	U	5	U	5	UJ
Di-n-octylphthalate	5	UJ	5	U	5	U	5	U	5	UJ
Benzo(b)fluoranthene	5	U	5	UJ	5	U	5	UJ	5	UJ
Benzo(k)fluoranthene	5	U	5	UJ	5	U	5	UJ	5	UJ
Benzo(a)pyrene	5	U	5	UJ	5	U	5	UJ	5	UJ
Indeno(1,2,3-cd)pyrene	5	U	5	UJ	5	U	5	UJ	5	UJ
Dibenzo(a,h)-anthracene	5	U	5	UJ	5	U	5	UJ	5	UJ
Benzo(g,h,i)perylene	5	U	5	UJ	5	U	5	UJ	5	UJ

UJ substituted for VS flags assigned due to deuterated monitoring compound recovery below lower limit of criteria window.

Maybe UJB for bis-2-ethylhexyl phthalate, Y0GQ5 and Y0GQ7?

Final Flag Results

Case No	30499		Protocol BNA		Lab ID	CLAYTN				
SDG No	Y0GP9				File Name	Y0GP9				
Sample No	Y0GR1	Y0GR1RE	Y0GR2	Y0GR2MS	Y0GR2MSD					
Regional No	Y0GR1	Y0GR1RE	Y0GR2	Y0GR2MS	Y0GR2MSD					
Sample Location	GW202-OW4A-0	GW202-OW4A-0	GW202-OW4B-0	GW202-OW4B-0	GW202-OW4B-0					
	073	073	125	125	125					
Sample Type	Routine	Routine	Spike	Matrix Spike	Matrix Spike					
	Sample	Sample	Original		Duplicate					
Matrix/Level	Water/	Water/	Water/	Water/	Water/					
Dilution Factor	1	1	1	1	1					
Units	UG/L	UG/L	UG/L	UG/L	UG/L					
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	12	J	5	UJ	5	U	5	U	25	J
Phenol	5	UJ	5	UJ	5	U	52	U	55	J
bis(2-Chloroethyl)ether	5	UJ	5	UJ	5	U	5	U	5	UJ
2-Chlorophenol	5	UJ	5	UJ	5	U	49	U	50	J
2-Methylphenol	5	UJ	5	UJ	5	U	5	U	5	UJ
2,2-oxybis(1-Chloropropane)	5	UJ	5	UJ	5	U	5	U	5	UJ
Acetophenone	5	UJ	5	UJ	5	U	5	U	5	UJ
4-Methylphenol	5	UJ	5	UJ	5	U	5	U	5	UJ
N-Nitroso-di-n-propylamine	5	UJ	5	UJ	5	U	13	U	16	J
Hexachloroethane	5	UJ	5	UJ	5	U	5	U	5	UJ
Nitrobenzene	5	UJ	5	UJ	5	U	5	U	5	UJ
Isophorone	5	UJ	5	UJ	5	U	5	U	5	UJ
2-Nitrophenol	5	UJ	5	UJ	5	U	5	U	5	UJ
2,4-Dimethylphenol	5	UJ	5	UJ	5	U	5	U	5	UJ
bis(2-Chloroethoxy)methane	5	UJ	5	UJ	5	U	5	U	5	UJ
2,4-Dichlorophenol	5	UJ	5	UJ	5	U	5	U	5	UJ
Naphthalene	5	UJ	5	UJ	5	U	5	U	5	UJ
4-Chloroaniline	5	UJ	5	UJ	5	U	5	U	5	UJ
Hexachlorobutadiene	5	UJ	5	UJ	5	U	5	U	5	UJ
Caprolactam	5	UJ	5	UJ	5	U	5	U	5	UJ
4-Chloro-3-methylphenol	5	UJ	5	UJ	5	U	49	U	49	J
2-Methylnaphthalene	5	UJ	5	UJ	5	U	5	U	5	UJ
Hexachlorocyclopentadiene	5	UJ	5	UJ	5	U	5	U	5	UJ
2,4,6-Trichlorophenol	5	UJ	5	UJ	5	U	5	U	5	UJ
2,4,5-Trichlorophenol	20	UJ	20	UJ	20	U	20	U	20	UJ
1,1'-Biphenyl	5	UJ	5	UJ	5	U	5	U	5	UJ
2-Chloronaphthalene	5	UJ	5	UJ	5	U	5	U	5	UJ
2-Nitroaniline	20	UJ	20	UJ	20	U	20	U	20	UJ
Dimethylphthalate	5	UJ	5	UJ	5	U	5	U	5	UJ
2,6-Dinitrotoluene	5	UJ	5	UJ	5	U	5	U	5	UJ
Acenaphthylene	5	UJ	5	UJ	5	U	5	U	5	UJ
3-Nitroaniline	20	UJ	20	UJ	20	U	20	U	20	UJ

UJ substituted for VS flags assigned due to deuterated monitoring compound recovery below lower limit of criteria window.

Final Flag Results

Case No 30499 Protocol. BNA Lab ID CLAYTN
 SDG No Y0GP9 File Name Y0GP9

Sample No	Y0GR1	Y0GR1RE	Y0GR2	Y0GR2MS	Y0GR2MSD
Regional No	Y0GR1	Y0GR1RE	Y0GR2	Y0GR2MS	Y0GR2MSD
Sample Location	GW202-OW4A-0	GW202-OW4A-0	GW202-OW4B-0	GW202-OW4B-0	GW202-OW4B-0
Sample Type	Routine	Routine	Spike	Matrix Spike	Matrix Spike
Matrix/Level	Sample	Sample	Original		Duplicate
Dilution Factor	Water/	Water/	Water/	Water/	Water/
Units	UG/L	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag								
Acenaphthene	5	UJ	5	UJ	5	U	11		12	J
2,4-Dinitrophenol	20	UJ	20	UJ	20	U	20	U	20	UJ
4-Nitrophenol	20	UJ	20	UJ	20	U	49		58	J
Dibenzofuran	5	UJ	5	UJ	5	U	5	U	5	UJ
2,4-Dinitrotoluene	5	UJ	5	UJ	5	U	13		15	J
Diethylphthalate	5	UJ	5	UJ	5	U	5	U	5	UJ
Fluorene	5	UJ	5	UJ	5	U	5	U	5	UJ
4-Chlorophenyl-phenylether	5	UJ	5	UJ	5	U	5	U	5	UJ
4-Nitroaniline	20	UJ	20	UJ	20	U	20	U	20	UJ
4,6-Dinitro-2-methylphenol	20	UJ	20	UJ	20	UJ	20	U	20	UJ
N-Nitrosodiphenylamine	5	UJ	5	UJ	5	U	5	U	5	UJ
1,2,4,5 Tetrachlorobenzene	5	UJ	5	UJ	5	U	5	U	5	UJ
4-Bromophenyl-phenylether	5	UJ	5	UJ	5	U	5	U	5	UJ
Hexachlorobenzene	5	UJ	5	UJ	5	U	5	U	5	UJ
Atrazine	5	UJ	5	UJ	5	U	5	U	5	UJ
Pentachlorophenol	5	UJ	5	UJ	5	U	63		74	J
Phenanthrene	5	UJ	5	UJ	5	U	5	U	5	UJ
Anthracene	5	UJ	5	UJ	5	U	5	U	5	UJ
Di-n-butylphthalate	5	UJ	5	UJ	5	U	5	U	5	UJ
Fluoranthene	5	UJ	5	UJ	5	U	5	U	5	UJ
Pyrene	13	J	2	J	5	U	17		19	J
Butylbenzylphthalate	5	UJ	5	UJ	5	U	5	U	5	UJ
3,3-Dichlorobenzidine	5	UJ	5	UJ	5	U	5	U	5	UJ
Benzo(a)anthracene	5	UJ	5	UJ	5	U	5	U	5	UJ
Chrysene	5	UJ	5	UJ	5	U	5	U	5	UJ
bis(2-Ethylhexyl)phthalate	5	UJ	1	J	5	U	5	U	5	UJ
Di-n-octylphthalate	5	UJ	5	UJ	5	U	5	U	5	UJ
Benzo(b)fluoranthene	5	UJ	5	UJ	5	U	5	U	5	UJ
Benzo(k)fluoranthene	5	UJ	5	UJ	5	U	5	U	5	UJ
Benzo(a)pyrene	5	UJ	5	UJ	5	U	5	U	5	UJ
Indeno(1,2,3-cd)pyrene	5	UJ	5	UJ	5	U	5	U	5	UJ
Dibenzo(a,h) - anthracene	5	UJ	5	UJ	5	U	5	U	5	UJ
Benzo(g,h,i) perylene	5	UJ	5	UJ	5	U	5	U	5	UJ

UJ substituted for VS flags assigned due to deuterated monitoring compound recovery below lower limit of criteria window.

Maybe JB for bis-2-ethylhexyl phthalate, Y0GR1RE? Or not, since the method blanks with detections below CRQL may not be associated with this sample? Looks like just a reanalysis anyway..

Final Flag Results

Case No	30499	Protocol		BNA	Lab ID	CLAYTN		
SDG No	Y0GP9				File Name	Y0GP9		
Sample No	Y0GR3	Y0GR6	Y0GR7	Y0GR8				
Regional No	Y0GR3	Y0GR6	Y0GR7	Y0GR8				
Sample Location	GW202-OW5-00	GW202-OW3-00	GW202-OW2-00	GW202-OW6-00				
	48	80	78	48				
Sample Type	Routine	Routine	Routine	Routine				
	Sample	Sample	Sample	Sample				
Matrix/Level	Water/	Water/	Water/	Water/				
Dilution Factor	1	1	1	1				
Units	UG/L	UG/L	UG/L	UG/L				

Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	UJ	14	J	5	U	5	U
Phenol	5	UJ	5	U	5	U	21	J
bis(2-Chloroethyl)ether	5	UJ	5	U	5	U	5	U
2-Chlorophenol	5	UJ	5	U	5	U	5	U
2-Methylphenol	5	UJ	5	U	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	UJ	5	U	5	U	5	U
Acetophenone	5	UJ	5	U	5	U	5	U
4-Methylphenol	5	UJ	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	UJ	5	U	5	U	5	U
Hexachloroethane	5	UJ	5	U	5	U	5	U
Nitrobenzene	5	UJ	5	U	5	U	5	U
Isophorone	5	UJ	5	U	5	U	5	U
2-Nitrophenol	5	UJ	5	U	5	U	5	U
2,4-Dimethylphenol	5	UJ	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	UJ	5	U	5	U	5	U
2,4-Dichlorophenol	5	UJ	5	U	5	U	5	U
Naphthalene	5	UJ	5	U	5	UJ	5	U
4-Chloroaniline	5	UJ	5	UJ	5	UJ	5	U
Hexachlorobutadiene	5	UJ	5	U	5	U	5	U
Caprolactam	5	UJ	5	U	5	UJ	5	UJ
4-Chloro-3-methylphenol	5	UJ	5	U	5	U	5	U
2-Methylnaphthalene	5	UJ	5	U	5	UJ	5	U
Hexachlorocyclopentadiene	5	UJ	5	UJ	5	UJ	5	U
2,4,6-Trichlorophenol	5	UJ	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	UJ	20	U	20	U	20	U
1,1'-Biphenyl	5	UJ	5	U	5	UJ	5	UJ
2-Chloronaphthalene	5	UJ	5	U	5	UJ	5	U
2-Nitroaniline	20	UJ	20	U	20	U	20	U
Dimethylphthalate	5	UJ	5	U	5	UJ	5	UJ
2,6-Dinitrotoluene	5	UJ	5	U	5	U	5	U
Acenaphthylene	5	UJ	5	U	5	UJ	5	U
3-Nitroaniline	20	UJ	20	U	20	U	20	U

UJ substituted for VS flags assigned due to deuterated monitoring compound recovery below lower limit of criteria window.

Final Flag Results
Protocol BNA

Case No 30499 Lab ID CLAYTN
SDG No Y0GP9 File Name Y0GP9

Sample No	Y0GR3	Y0GR6	Y0GR7	Y0GR8
Regional No	Y0GR3	Y0GR6	Y0GR7	Y0GR8
Sample Location	GW202-OW5-00	GW202-OW3-00	GW202-OW2-00	GW202-OW6-00
	48	80	78	48
Sample Type	Routine	Routine	Routine	Routine
	Sample	Sample	Sample	Sample
Matrix/Level	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1
Units	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	5	UJ	5	U	5	UJ	5	U
2,4-Dinitrophenol	20	UJ	20	U	20	U	20	U
4-Nitrophenol	20	UJ	20	U	20	U	20	U
Dibenzofuran	5	UJ	5	U	5	U	5	U
2,4-Dinitrotoluene	5	UJ	5	U	5	U	5	U
Diethylphthalate	5	UJ	5	U	5	UJ	5	UJ
Fluorene	5	UJ	5	U	5	U	5	U
4-Chlorophenyl-phenylether	5	UJ	5	U	5	U	5	U
4-Nitroaniline	20	UJ	20	U	20	U	20	U
4,6-Dinitro-2-methylphenol	20	UJ	20	U	20	U	20	UJ
N-Nitrosodiphenylamine	5	UJ	5	U	5	U	5	U
1,2,4,5 Tetrachlorobenzene	5	UJ	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	UJ	5	U	5	U	5	U
Hexachlorobenzene	5	UJ	5	U	5	U	5	U
Atrazine	5	UJ	5	U	5	U	5	U
Pentachlorophenol	5	UJ	5	U	5	U	5	U
Phenanthrene	5	UJ	5	U	5	U	5	U
Anthracene	5	UJ	5	U	5	U	5	U
Di-n-butylphthalate	5	UJ	5	U	5	UJ	5	UJ
Fluoranthene	5	UJ	5	U	5	U	5	U
Pyrene	5	UJ	5	U	5	U	5	U
Butylbenzylphthalate	5	UJ	5	U	5	UJ	5	UJ
3,3-Dichlorobenzidine	5	UJ	5	UJ	5	UJ	5	U
Benzo(a)anthracene	5	UJ	5	U	5	U	5	U
Chrysene	5	UJ	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	UJ	5	U	5	UJ	5	UJ
Di-n-octylphthalate	5	UJ	5	U	5	UJ	5	UJ
Benzo(b)fluoranthene	5	UJ	5	UJ	5	U	5	UJ
Benzo(k)fluoranthene	5	UJ	5	UJ	5	U	5	UJ
Benzo(a)pyrene	5	UJ	5	UJ	5	U	5	UJ
Indeno(1,2,3-cd)pyrene	5	UJ	5	UJ	5	U	5	UJ
Dibenzo (a,h) - anthracene	5	UJ	5	UJ	5	U	5	UJ
Benzo (g,h,i) perylene	5	UJ	5	UJ	5	U	5	UJ

UJ substituted for VS flags assigned due to deuterated monitoring compound recovery below lower limit of criteria window.

Case No	30499	Final Flag Results				Lab ID	CLAYTN	
		Protocol		PEST				File Name
SDG No	Y0GP9	PBLKW1	PBLKW2	Y0GQ0	Y0GQ1	Y0GQ2	Y0GQ2	
Sample No				Y0GQ0	Y0GQ1	Y0GQ2	Y0GQ2	
Regional No				Y0GQ0	Y0GQ1	Y0GQ2	Y0GQ2	
Sample Location				GW202-MW01A-0055	GW202-MW01B-0080	GW202-MW01B-1080		
Sample Type		Method Blank	Method Blank	Routine Sample	Routine Sample	Routine Sample		
Matrix/Level		Water/	Water/	Water/	Water/	Water/		
Dilution Factor		1	1	1	1	1		
Units		UG/L	UG/L	UG/L	UG/L	UG/L		
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.01	U	0.01	UJ	0.01	U	0.01	U
beta-BHC	0.01	U	0.01	UJ	0.01	U	0.01	U
delta-BHC	0.01	U	0.01	UJ	0.01	U	0.01	U
gamma-BHC (Lindane)	0.01	U	0.01	UJ	0.01	U	0.01	U
Heptachlor	0.01	U	0.01	UJ	0.01	U	0.01	U
Aldrin	0.01	U	0.01	UJ	0.01	U	0.01	U
Heptachlor epoxide	0.01	U	0.01	UJ	0.01	U	0.01	U
Endosulfan I	0.01	U	0.01	UJ	0.01	U	0.01	U
Dieldrin	0.02	U	0.02	UJ	0.02	U	0.02	U
4,4-DDE	0.02	U	0.02	UJ	0.02	U	0.02	U
Endrin	0.02	U	0.02	UJ	0.02	U	0.02	U
Endosulfan II	0.02	U	0.02	UJ	0.02	U	0.02	U
4,4-DDD	0.02	U	0.02	UJ	0.02	U	0.02	U
Endosulfan sulfate	0.02	U	0.02	UJ	0.02	U	0.02	U
4,4-DDT	0.02	U	0.02	UJ	0.02	U	0.02	U
UJethoxychlor	0.1	U	0.1	UJ	0.1	U	0.1	U
Endrin ketone	0.02	U	0.02	UJ	0.02	U	0.02	U
Endrin aldehyde	0.02	U	0.02	UJ	0.02	U	0.02	U
alpha-Chlordane	0.01	U	0.01	UJ	0.01	U	0.01	U
gamma-Chlordane	0.01	U	0.01	UJ	0.01	U	0.01	U
Toxaphene	1	U	1	UJ	1	U	1	U
Aroclor-1016	0.2	U	0.2	UJ	0.2	U	0.2	U
Aroclor-1221	0.4	U	0.4	UJ	0.4	U	0.4	U
Aroclor-1232	0.2	U	0.2	UJ	0.2	U	0.2	U
Aroclor-1242	0.2	U	0.2	UJ	0.2	U	0.2	U
Aroclor-1248	0.2	U	0.2	UJ	0.2	U	0.2	U
Aroclor-1254	0.2	U	0.2	UJ	0.2	U	0.2	U
Aroclor-1260	0.2	U	0.2	UJ	0.2	U	0.2	U

U substituted for M flags assigned due to missing Lab QA sample

Case No	30499	Final Flag Results				Lab ID	CLAYTN			
		Protocol	PEST	File Name	Y0GP9					
SDG No	Y0GP9									
Sample No	Y0GQ3	Y0GQ4	Y0GQ5	Y0GQ7	Y0GQ8					
Regional No	Y0GQ3	Y0GQ4	Y0GQ5	Y0GQ7	Y0GQ8					
Sample Location	GW202-MW05A-0049	GW202-MW02A-0055	GW202-OW07-0081	GW202-OW1A-0080	GW202-OW1B-0116					
Sample Type	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample					
Matrix/Level	Water/	Water/	Water/	Water/	Water/					
Dilution Factor	1	1	1	1	1					
Units	UG/L	UG/L	UG/L	UG/L	UG/L					
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
beta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
delta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
gamma-BHC (Lindane)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Heptachlor	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Endosulfan I	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4,4-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4 4-DDD	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4 4-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	0.1	U	0.1	U	0.1	U	0.056	J	0.1	U
Endrin ketone	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin aldehyde	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
alpha-Chlordane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
gamma-Chlordane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Toxaphene	1	U	1	U	1	U	1	U	1	U
Aroclor-1016	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1221	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Aroclor-1232	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1242	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1248	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

J substituted for VS flag due to detection below CRQL

Final Flag Results
Protocol PEST

Case No 30499
SDG No Y0GP9

Lab ID CLAYTN
File Name Y0GP9

Sample No	Y0GR0	Y0GR1	Y0GR2	Y0GR2MS	Y0GR2MSD
Regional No	Y0GR0	Y0GR1	Y0GR2	Y0GR2MS	Y0GR2MSD
Sample Location	GW202-OW8-00	GW202-OW4A-0	GW202-OW4B-0	GW202-OW4B-0	GW202-OW4B-0
	75	073	125	125	125
Sample Type	Routine	Routine	Spike	Matrix Spike	Matrix Spike
	Sample	Sample	Original		Duplicate
Matrix/Level	Water/	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1	1
Units	UG/L	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag								
alpha-BHC	0 01	U								
beta-BHC	0 01	U								
delta-BHC	0 01	U								
gamma-BHC (Lindane)	0 01	U	0 01	U	0 01	U	0 076		0 08	
Heptachlor	0 01	U	0 01	U	0 01	U	0 075		0 078	
Aldrin	0 01	U	0 01	U	0 01	U	0 071		0 074	
Heptachlor epoxide	0 01	U								
Endosulfan I	0 01	U								
Dieldrin	0 02	U	0 02	U	0 02	U	0 2		0 2	
4,4-DDE	0 02	U								
Endrin	0 02	U	0 02	U	0 02	U	0 21		0 22	
Endosulfan II	0 02	U								
4,4-DDD	0 02	U								
Endosulfan sulfate	0 02	U								
4,4-DDT	0 02	U	0 02	U	0 02	U	0 21		0 21	
Methoxychlor	0 1	U	0 1	U	0 1	U	0 1	U	0 1	U
Endrin ketone	0 02	U								
Endrin aldehyde	0 02	U								
alpha-Chlordane	0 01	U								
gamma-Chlordane	0 01	U								
Toxaphene	1	U	1	U	1	U	1	U	1	U
Aroclor-1016	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1221	0 4	U	0 4	U	0 4	U	0 4	U	0 4	U
Aroclor-1232	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1242	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1248	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1254	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1260	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U

Final Flag Results

Case No	30499	Protocol	PEST	Lab ID	CLAYTN
SDG No	Y0GP9			File Name	Y0GP9
Sample No	Y0GR3	Y0GR6	Y0GR7	Y0GR8	
Regional No	Y0GR3	Y0GR6	Y0GR7	Y0GR8	
Sample Location	GW202-OW5-00	GW202-OW3-00	GW202-OW2-00	GW202-OW6-00	
	48	80	78	48	
Sample Type	Routine	Routine	Routine	Routine	
	Sample	Sample	Sample	Sample	
Matrix/Level	Water/	Water/	Water/	Water/	
Dilution Factor	1	1	1	1	
Units	UG/L	UG/L	UG/L	UG/L	

Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0 01	U						
beta-BHC	0 01	U	0 01	U	0 01	U	0 0064	J
delta-BHC	0 01	U						
gamma-BHC (Lindane)	0 01	U						
Heptachlor	0 01	U						
Aldrin	0 01	U						
Heptachlor epoxide	0 01	U						
Endosulfan I	0 01	U						
Dieldrin	0 02	U						
4 4-DDE	0 02	U						
Endrin	0 02	U						
Endosulfan II	0 02	U						
4 4-DDD	0 02	U						
Endosulfan sulfate	0 02	U						
4 4-DDT	0 02	U						
Uethoxychlor	0 1	U	0 1	U	0 1	U	0 1	U
Endrin ketone	0 02	U						
Endrin aldehyde	0 02	U						
alpha-Chlordane	0 01	U						
gamma-Chlordane	0 01	U						
Toxaphene	1	U	1	U	1	U	1	U
Aroclor-1016	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1221	0 4	U	0 4	U	0 4	U	0 4	U
Aroclor-1232	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1242	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1248	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1254	0 2	U	0 2	U	0 2	U	0 2	U
Aroclor-1260	0 2	U	0 2	U	0 2	U	0 2	U

U substituted for M flags assigned due to missing Lab QA sample

J substituted for M flag due to detection below CRQL

Case No		30499		Final Flag Results		Lab ID		A4		
SDG No		Y0GW6		Protocol. BNA		File Name		Y0GW6		
Sample No	SBLK104	Y0GN0	Y0GN2	Y0GN2MS	Y0GN2MSD	Y0GN2MSD	Y0GN2MSD	Y0GN2MSD	Y0GN2MSD	
Regional No		Y0GN0	Y0GN2	Y0GN2MS	Y0GN2MSD	Y0GN2MSD	Y0GN2MSD	Y0GN2MSD	Y0GN2MSD	
Sample Location		GW202-MW07A-0041	GW202-MW03A-0042	GW202-MW03A-0042	GW202-MW03A-0042	GW202-MW03A-0042	GW202-MW03A-0042	GW202-MW03A-0042	GW202-MW03A-0042	
Sample Type	Method Blank	Routine Sample	Spike Original	Matrix Spike	Matrix Spike Duplicate					
Matrix/Level	Water/	Water/	Water/	Water/	Water/	Water/	Water/	Water/	Water/	
Dilution Factor.	1	1	1	1	1	1	1	1	1	
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U	5	U
Phenol	5	U	5	U	5	U	21	U	20	U
bis(2-Chloroethyl)ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	21	U	21	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	U	21	U	19	U
Hexachloroethane	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	U	23	U	22	U
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	U	20	U	20	U	20	U	20	U
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U	20	U	20	U	20	U	20	U
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U	20	U	20	U	20	U	20	U

UJ substituted for VS flag assigned due to initial calibration %RSD outside primary criteria, for 2-methylphenol, 4-methylphenol, 2,4-dimethylphenol, 4-chloroaniline, and hexachloropenadiene.

Final Flag Results
Protocol BNA

Case No 30499
SDG No Y0GW6

Lab ID A4
File Name Y0GW6

Sample No SBLK104 Y0GN0 Y0GN2 Y0GN2MS Y0GN2MSD
Regional No Y0GN0 Y0GN2 Y0GN2MS Y0GN2MSD
Sample Location GW202-MW07A- GW202-MW03A- GW202-MW03A-

Sample Type Method Blank 0041 0042 0042 0042
Routne Spike Matrix Spike Matrix Spike
Sample Original Duplicate
Matrix/Level Water/ Water/ Water/ Water/ Water/
Dilution Factor 1 1 1 1 1

Units	UG/L									
Compound	Result	Flag								
Acenaphthene	5	U	5	U	5	U	21		20	
2,4-Dinitrophenol	20	U								
4-Nitrophenol	20	U	20	U	20	U	54		54	
Dibenzofuran	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U	5	U	21		21	
Diethylphthalate	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U								
4,6-Dinitro-2-methylphenol	20	U								
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5 Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	U	5	U	5	U	5	U	5	U
Atrazine	5	UJ								
Pentachlorophenol	5	U	5	U	5	U	26		24	
Phenanthrene	5	U	5	U	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	U	5	U	5	U	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	16		16	
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U
3,3-Dichlorobenzidine	5	UJ								
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U	5	UJ	5	U	5	U
Benzo(k)fluoranthene	5	U	5	U	5	UJ	5	U	5	U
Benzo(a)pyrene	5	U	5	U	5	UJ	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	UJ	5	U	5	U
Dibenzo (a h) - anthracene	5	U	5	U	5	UJ	5	U	5	U
Benzo (g,h,i) perylene	5	U	5	U	5	UJ	5	U	5	U

UJ substituted for VS flag assigned due to initial calibration %RSD outside primary criteria, for atrazine, 3,3-dichlorobenzidine, benzo(b)fluoroanthene, benzo(k)fluoroanthene, benzo(a)pyrene, indeno(1,1,3-cd)pyrene, dibenzo(a,h)-anthracene, and benzo (g,h,i) perylene.

Final Flag Results
Protocol BNA

Case No 30499
SDG No Y0GW6

Lab ID. A4
File Name Y0GW6

Sample No	Y0GN3	Y0GN5	Y0GN6	Y0GN7	Y0GN8
Regional No	Y0GN3	Y0GN5	Y0GN6	Y0GN7	Y0GN8
Sample Location	GW202-MW04A-0047	GW202-MW04B-1075	GW202-MW04B-0075	GW202-MW04C-0094	GW202-MW11A-0045
Sample Type	Routine Sample				
Matrix/Level	Water/	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1	1
Units	UG/L	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag								
Benzaldehyde	5	U	5	U	5	U	5	U	5	U
Phenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethyl)ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	5	U	5	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	U	5	U	5	U
Hexachloroethane	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	U	5	U	5	U
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	U								
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U								
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U								

Final Flag Results
Protocol BNA

Case No 30499
SDG No Y0GW6

Lab ID A4
File Name Y0GW6

Sample No	Y0GN3	Y0GN5	Y0GN6	Y0GN7	Y0GN8
Regional No	Y0GN3	Y0GN5	Y0GN6	Y0GN7	Y0GN8
Sample Location	GW202-MW04A-0047	GW202-MW04B-1075	GW202-MW04B-0075	GW202-MW04C-0094	GW202-MW11A-0045
Sample Type	Routine Sample				
Matrix/Level	Water/	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1	1
Units	UG/L	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag								
Acenaphthene	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	20	U								
4-Nitrophenol	20	U								
Dibenzofuran	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Diethylphthalate	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U								
4,6-Dinitro-2-methylphenol	20	U	20	U	20	UJ	20	UJ	20	UJ
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5 Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	U	5	U	5	U	5	U	5	U
Atrazine	5	UJ								
Pentachlorophenol	5	U	5	U	5	U	5	U	5	U
Phenanthrene	5	U	5	U	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	U	5	U	5	U	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	5	U	5	U
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U
3,3-Dichlorobenzidine	5	UJ								
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(k)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(a)pyrene	5	U	5	U	5	U	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	U	5	U	5	U
Dibenzo (a,h) - anthracene	5	U	5	U	5	U	5	U	5	U
Benzo (g,h,i) perylene	5	U	5	U	5	U	5	U	5	U

UJ substituted for VS flag assigned due to initial calibration %RSD outside primary criteria, for 4,6-dinitro-2-methylphenol, atrazine, and 3,3-dichlorobenzidine.

Final Flag Results

Case No 30499
SDG No Y0GW6

Protocol BNA

Lab ID A4
File Name Y0GW6

Sample No	Y0GP1	Y0GP2	Y0GP5	Y0GP6	Y0GP7
Regional No	Y0GP1	Y0GP2	Y0GP5	Y0GP6	Y0GP7
Sample Location	GW202-MW08C-0087	GW202-MW08A-0040	GW202-MW09A-0032	GW202-MW09B-0054	GW202-MW06A-0042
Sample Type	Routine Sample				
Matrix/Level	Water/	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1	1
Units	UG/L	UG/L	UG/L	UG/L	UG/L

Compound	Result	Flag								
Benzaldehyde	5	U	5	U	5	U	5	U	5	U
Phenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethyl)ether	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	5	U	5	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	U	5	U	5	U
Hexachloroethane	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	UJ	5	U	5	U	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	U	5	U	5	U
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	UJ	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	20	U								
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	20	U								
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	20	U								

UJ substituted for VS flag assigned due to initial calibration %RSD outside primary criteria, for 4-chloraniline and hexachlorocyclopentadiene.

Case No 30499
SDG No Y0GW6

Final Flag Results
Protocol BNA

Lab ID A4
File Name Y0GW6

Sample No	Y0GP1	Y0GP2	Y0GP5	Y0GP6	Y0GP7
Regional No	Y0GP1	Y0GP2	Y0GP5	Y0GP6	Y0GP7
Sample Location	GW202-MW08C-0087	GW202-MW08A-0040	GW202-MW09A-0032	GW202-MW09B-0054	GW202-MW06A-0042
Sample Type	Routine Sample				
Matrix/Level	Water/	Water/	Water/	Water/	Water/
Dilution Factor	1	1	1	1	1

Compound	Y0GP1		Y0GP2		Y0GP5		Y0GP6		Y0GP7	
	Result	Flag								
Acenaphthene	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	20	U								
4-Nitrophenol	20	U								
Dibenzofuran	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U
Diethylphthalate	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	20	U								
4,6-Dinitro-2-methylphenol	20	U	20	UJ	20	U	20	U	20	UJ
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U
1,2,4,5 Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	U	5	U	5	U	5	U	5	U
Atrazine	5	UJ								
Pentachlorophenol	5	U	5	U	5	U	5	U	5	U
Phenanthrene	5	U	5	U	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	U	5	U	5	U	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	5	U	5	U
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U
3,3-Dichlorobenzidine	5	UJ								
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U
bis(2-Ethylhexyl)phthalate	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(k)fluoranthene	5	U	5	U	5	U	5	U	5	U
Benzo(a)pyrene	5	U	5	U	5	U	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	U	5	U	5	U
Dibenzo(a,h) - anthracene	5	U	5	U	5	U	5	U	5	U
Benzo(g,h,i) perylene	5	U	5	U	5	U	5	U	5	U

UJ substituted for VS flag assigned due to initial calibration %RSD outside primary criteria, for 4,6-dinitro-2-methylphenol, atrazine, and 3,3-dichlorobenzidine, selected samples.

Final Flag Results
 Protocol BNA

Lab ID A4
 File Name Y0GW6

Case No 30499
 SDG No Y0GW6

Sample No Y0GP8
 Regional No Y0GP8
 Sample Location GW202-MW10A-0057
 Sample Type Routine Sample
 Matrix/Level Water/
 Dilution Factor 1

Units UG/L

Compound	Result	Flag
Benzaldehyde	5	U
Phenol	5	U
bis(2-Chloroethyl)ether	5	U
2-Chlorophenol	5	U
2-Methylphenol	5	U
2,2-oxybis(1-Chloropropane)	5	U
Acetophenone	5	U
4-Methylphenol	5	U
N-Nitroso-di-n-propylamine	5	U
Hexachloroethane	5	U
Nitrobenzene	5	U
Isophorone	5	U
2-Nitrophenol	5	U
2,4-Dimethylphenol	5	U
bis(2-Chloroethoxy)methane	5	U
2,4-Dichlorophenol	5	U
Naphthalene	5	U
4-Chloroaniline	5	U
Hexachlorobutadiene	5	U
Caprolactam	5	U
4-Chloro-3-methylphenol	5	U
2-Methylnaphthalene	5	U
Hexachlorocyclopentadiene	5	U
2,4,6-Trichlorophenol	5	U
2,4,5-Trichlorophenol	20	U
1,1'-Biphenyl	5	U
2-Chloronaphthalene	5	U
2-Nitroaniline	20	U
Dimethylphthalate	5	U
2,6-Dinitrotoluene	5	U
Acenaphthylene	5	U
3-Nitroaniline	20	U

Final Flag Results
 Protocol BNA

Case No 30499
 SDG No Y0GW6

Lab ID A4
 File Name: Y0GW6

Sample No Y0GP8
 Regional No Y0GP8
 Sample Location GW202-MW10A-0057
 Sample Type Routine Sample
 Matrix/Level Water/
 Dilution Factor 1
 Units UG/L

Compound	Result	Flag
Acenaphthene	5	U
2,4-Dinitrophenol	20	U
4-Nitrophenol	20	U
Dibenzofuran	5	U
2,4-Dinitrotoluene	5	U
Diethylphthalate	5	U
Fluorene	5	U
4-Chlorophenyl-phenylether	5	U
4-Nitroaniline	20	U
4,6-Dinitro-2-methylphenol	20	UJ
N-Nitrosodiphenylamine	5	U
1,2,4,5 Tetrachlorobenzene	5	U
4-Bromophenyl-phenylether	5	U
Hexachlorobenzene	5	U
Atrazine	5	UJ
Pentachlorophenol	5	U
Phenanthrene	5	U
Anthracene	5	U
Di-n-butylphthalate	5	U
Fluoranthene	5	U
Pyrene	5	U
Butylbenzylphthalate	5	U
3,3-Dichlorobenzidine	5	UJ
Benzo(a)anthracene	5	U
Chrysene	5	U
bis(2-Ethylhexyl)phthalate	5	U
Di-n-octylphthalate	5	U
Benzo(b)fluoranthene	5	U
Benzo(k)fluoranthene	5	U
Benzo(a)pyrene	5	U
Indeno(1,2,3-cd)pyrene	5	U
Dibenzo (a,h) - anthracene	5	U
Benzo (g,h,i) perylene	5	U

UJ substituted for VS flag assigned due to initial calibration %RSD outside primary criteria, for 4,6-dinitro-2-methylphenol, atrazine, and 3,3-dichlorobenzidine.

Final Flag Results

Case No	30499	Protocol				PEST	Lab ID	A4	File Name			Y0GW6
SDG No	Y0GW6	PBLK55				Y0GN0	Y0GN2	Y0GN2MS	Y0GN2MSD			Y0GN2MSD
Sample No	Regional No	Sample Location				Y0GN0	Y0GN2	Y0GN2MS	Y0GN2MSD			Y0GN2MSD
Sample Type	Method Blank	Routine Sample				Routine Sample	Matrix Spike	Matrix Spike			Matrix Spike	
Matrix/Level	Water/	Water/				Water/	Water/	Water/			Water/	
Dilution Factor	1	1				1	1	1			1	
Units	UG/L	UG/L				UG/L	UG/L	UG/L			UG/L	
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
alpha-BHC	0 01	U	0 01	U	0 01	U	0 01	U	0 01	U		
beta-BHC	0 01	U	0 01	U	0 01	U	0 01	U	0 01	U		
delta-BHC	0 01	UJ	0 01	UJ	0 01	UJ	0 01	UJ	0 01	UJ		
gamma-BHC (Lindane)	0 01	U	0 01	U	0 01	U	0 07	U	0 062	U		
Heptachlor	0 01	UJ	0 01	UJ	0 01	UJ	0 01	UJ	0 053	J		
Aldrin	0 01	U	0 01	U	0 01	U	0 041	U	0 038	U		
Heptachlor epoxide	0 01	U	0 01	U	0 01	U	0 01	U	0 01	U		
Endosulfan I	0 01	U	0 01	U	0 01	U	0 01	U	0 01	U		
Dieldrin	0 02	U	0 02	U	0 02	U	0 12	U	0 14	U		
4,4-DDE	0 02	U	0 02	U	0 02	U	0 02	U	0 02	U		
Endrin	0 02	U	0 02	U	0 02	U	0 15	U	0 16	U		
Endosulfan II	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ		
4,4-DDD	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ		
Endosulfan sulfate	0 02	U	0 02	U	0 02	U	0 02	U	0 02	U		
4,4-DDT	0 02	U	0 02	U	0 02	U	0 14	U	0 13	U		
Methoxychlor	0 1	UJ	0 1	UJ	0 1	UJ	0 1	UJ	0 1	UJ		
Endrin ketone	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ		
Endrin aldehyde	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ	0 02	UJ		
alpha-Chlordane	0 01	U	0 01	U	0 01	U	0 01	U	0 01	U		
gamma-Chlordane	0 01	UJ	0 01	UJ	0 01	UJ	0 01	UJ	0 01	UJ		
Toxaphene	1	U	1	U	1	U	1	U	1	U		
Aroclor-1016	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U		
Aroclor-1221	0 4	U	0 4	U	0 4	U	0 4	U	0 4	U		
Aroclor-1232	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U		
Aroclor-1242	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U		
Aroclor-1248	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U		
Aroclor-1254	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U		
Aroclor-1260	0 2	U	0 2	U	0 2	U	0 2	U	0 2	U		

J flag substituted for VS flag assigned to MS/MSD for heptachlor, due to %D in column results outside primary criteria

U flag substituted for VS flag assigned to alpha-chlordane result due to RT in the midpoint INDA/INDB falling outside the RT window established during initial calibration.

UJ flags for non-detect results, selected analytes, due to %RSD of calibration factors exceeding primary criteria

Case No	30499	Final Flag Results				Lab ID	A4			
		Protocol		PEST				File Name	Y0GW6	
SDG No	Y0GW6	Y0GN3	Y0GN5	Y0GN6	Y0GN7	Y0GN8	Y0GN8			
Sample No	Y0GN3	Y0GN5	Y0GN6	Y0GN7	Y0GN8	Y0GN8	Y0GN8			
Regional No	Y0GN3	Y0GN5	Y0GN6	Y0GN7	Y0GN8	Y0GN8	Y0GN8			
Sample Location	GW202-MW04A-0047	GW202-MW04B-1075	GW202-MW04B-0075	GW202-MW04C-0094	GW202-MW11A-0045	GW202-MW11A-0045	GW202-MW11A-0045			
Sample Type	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample			
Matrix/Level	Water/	Water/	Water/	Water/	Water/	Water/	Water/			
Dilution Factor	1	1	1	1	1	1	1			
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L			
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
beta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
delta-BHC	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
gamma-BHC (Lindane)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Heptachlor	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Endosulfan I	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4,4-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
4,4-DDD	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4,4-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
Endrin ketone	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
Endrin aldehyde	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
alpha-Chlordane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
gamma-Chlordane	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
Toxaphene	1	U	1	U	1	U	1	U	1	U
Aroclor-1016	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1221	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Aroclor-1232	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1242	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1248	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

U flag substituted for VS flag assigned to alpha-chlordane result due to RT in the midpoint INDA/INDB falling outside the RT window established during initial calibration.

UJ flags for non-detect results, selected analytes, due to %RSD of calibration factors exceeding primary criteria.

Final Flag Results
Protocol PEST

Case No 30499
SDG No Y0GW6

Lab ID A4
File Name Y0GW6

Sample No	Y0GP1	Y0GP2	Y0GP5	Y0GP6	Y0GP7					
Regional No	Y0GP1	Y0GP2	Y0GP5	Y0GP6	Y0GP7					
Sample Location	GW202-MW08C-	GW202-MW08A-	GW202-MW09A-		GW202-MW09B-					
	0087	0040	0032	0054	0042					
Sample Type	Routine	Routine	Routine	Routine	Routine					
	Sample	Sample	Sample	Sample	Sample					
Matrix/Level	Water/	Water/	Water/	Water/	Water/					
Dilution Factor	1	1	1	1	1					
Units	UG/L	UG/L	UG/L	UG/L	UG/L					
Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
beta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
delta-BHC	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
gamma-BHC (Lindane)	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Heptachlor	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Endosulfan I	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4,4-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Endosulfan II	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
4,4-DDD	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4,4-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Methoxychlor	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
Endrin ketone	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
Endrin aldehyde	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ	0.02	UJ
alpha-Chlordane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
gamma-Chlordane	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ	0.01	UJ
Toxaphene	1	U	1	U	1	U	1	U	1	U
Aroclor-1016	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1221	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Aroclor-1232	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1242	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1248	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

U flag substituted for VS flag assigned to alpha-chlordane result due to RT in the midpoint INDA/INDB falling outside the RT window established during initial calibration

UJ flags for non-detect results, selected analytes, due to %RSD of calibration factors exceeding primary criteria

Final Flag Results
 Protocol PEST

Case No.: 30499
 SDG No. Y0GW6

Lab ID: A4
 File Name: Y0GW6

Sample No.: Y0GP8
 Regional No: Y0GP8
 Sample Location: GW202-MW10A-0057
 Sample Type: Routine Sample
 Matrix/Level: Water/
 Dilution Factor: 1

Units: UG/L

Compound	Result	Flag
alpha-BHC	0.01	U
beta-BHC	0.01	U
delta-BHC	0.01	UJ
gamma-BHC (Lindane)	0.01	U
Heptachlor	0.01	UJ
Aldrin	0.01	U
Heptachlor epoxide	0.01	U
Endosulfan I	0.01	U
Dieldrin	0.02	U
4,4-DDE	0.02	U
Endrin	0.02	U
Endosulfan II	0.02	UJ
4,4-DDD	0.02	UJ
Endosulfan sulfate	0.02	U
4,4-DDT	0.02	U
Methoxychlor	0.1	UJ
Endrin ketone	0.02	UJ
Endrin aldehyde	0.02	UJ
alpha-Chlordane	0.01	U
gamma-Chlordane	0.01	UJ
Toxaphene	1	U
Aroclor-1016	0.2	U
Aroclor-1221	0.4	U
Aroclor-1232	0.2	U
Aroclor-1242	0.2	U
Aroclor-1248	0.2	U
Aroclor-1254	0.2	U
Aroclor-1260	0.2	U

U flag substituted for VS flag assigned to alpha-chlordane result due to RT in the midpoint INDA/INDB falling outside the RT window established during initial calibration.

UJ flags for non-detect results, selected analytes, due to %RSD of calibration factors exceeding primary criteria.

Final Flag Results

Case No	30499	Protocol	BNA	Lab ID	A4
SDG No	Y0GP0			File Name	Y0GP0
Sample No	SBLK105	Y0GP0	Y0GP3		
Regional No		Y0GP0	Y0GP3		
Sample Location		GW202-MW08B-0070	GW202-MW08D-0116		
Sample Type	Method Blank	Routine Sample	Routine Sample		
Matrix/Level	Water/	Water/	Water/		
Dilution Factor	1	1	1		
Units	UG/L	UG/L	UG/L		

Compound	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U
Phenol	5	U	5	U	5	U
bis(2-Chloroethyl)ether	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U
2,2-oxybis(1-Chloropropane)	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U
4-Uethylphenol	5	U	5	U	5	U
N-Nitroso-di-n-propylaUine	5	U	5	U	5	U
Hexachloroethane	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U
2,4-DiUethylphenol	5	U	5	U	5	U
bis(2-Chloroethoxy)Uethane	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U
CaprolactU	5	U	5	U	5	U
4-Chloro-3-Uethylphenol	5	U	5	U	5	U
2-Uethylnaphthalene	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U
2,4,6-Trichlorophenol	20	U	20	U	20	U
2,4,5-Trichlorophenol	20	U	20	U	20	U
1,1-Biphenyl	20	U	20	U	20	U
2-Chloronaphthalene	20	U	20	U	20	U
2-Nitroaniline	20	U	20	U	20	U
DiUethylphthalate	20	U	20	U	20	U
2,6-Dinitrotoluene	20	U	20	U	20	U
Acenaphthylene	20	U	20	U	20	U
3-Nitroaniline	20	U	20	U	20	U

U substituted for M flags assigned due to missing Lab QA sample. Short on MS/MSDs due to change of labs during sampling event.

Final Flag Results

Case No	30499	Protocol	BNA	Lab ID	A4	
SDG No	Y0GP0	File Name	Y0GP0			
Sample No	SBLK105	Y0GP0	Y0GP3			
Regional No		Y0GP0	Y0GP3			
Sample Location		GW202-MW08B-0070	GW202-MW08D-0116			
Sample Type	Method Blank	Routine Sample	Routine Sample			
Matrix/Level	Water/	Water/	Water/			
Dilution Factor	1	1	1			
Units	UG/L	UG/L	UG/L			
Compound	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	5	U	5	U	5	U
2,4-Dinitrophenol	200	U	200	U	200	U
4-Nitrophenol	200	U	200	U	200	U
Dibenzofuran						
2,4-Dinitrotoluene						
Diethylphthalate						
Fluorene						
4-Chlorophenyl-phenylether						
4-Nitroaniline	200	U	200	U	200	U
4,6-Dinitro-2-methylphenol	200	U	200	U	200	U
N-Nitrosodiphenylamine						
1,2,4,5-Tetrachlorobenzene						
4-Bromophenyl-phenylether						
Hexachlorobenzene						
Atrazine						
Pentachlorophenol						
Phenanthrene						
Anthracene						
Di-n-butylphthalate						
Fluoranthene						
Pyrene						
Butylbenzylphthalate						
3,3-Dichlorobenzidine						
Benzo(a)anthracene						
Chrysene						
bis(2-Ethylhexyl)phthalate						
Di-n-octylphthalate						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-cd)pyrene						
Dibenzo(a,h)-anthracene						
Benzo(g,h,i)perylene	5	U	5	U	5	U

U substituted for M flags assigned due to missing Lab QA sample. Short on MS/MSDs due to change of labs during sampling event.

UJ substituted for VS or M flags for Atrazine and 3,3-Dichlorobenzene assigned due to initial calibration %RSD outside primary criteria and/or continuing/dual purpose calibration %D outside expanded criteria.

Final Flag Results

Case No 30499 Protocol PEST Lab ID A4
 SDG No Y0GP0 File Name Y0GP0

Sample No PBLK56 Y0GP0 Y0GP3
 Regional No Y0GP0 Y0GP3
 Sample Location GW202-MW08B- GW202-MW08D-
 0070 0116
 Sample Type Method Blank Routine Routine
 Sample Sample
 Matrix/Level Water/ Water/ Water/
 Dilution Factor 1 1 1
 Units UG/L UG/L UG/L

Compound	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.01	U	0.01	U	0.01	U
beta-BHC	0.01	U	0.01	U	0.01	U
delta-BHC	0.01	UJ	0.01	UJ	0.01	UJ
gamma-BHC (Lindane)	0.01	U	0.01	U	0.01	U
Heptachlor	0.01	UJ	0.01	UJ	0.01	UJ
Aldrin	0.01	U	0.01	U	0.01	U
Heptachlor epoxide	0.01	U	0.01	U	0.01	U
Endosulfan I	0.01	U	0.01	U	0.01	U
Dieldrin	0.02	U	0.02	U	0.02	U
4,4-DDE	0.02	U	0.02	U	0.02	U
Endrin	0.02	U	0.02	U	0.02	U
Endosulfan II	0.02	UJ	0.02	UJ	0.02	UJ
4,4-DDD	0.02	UJ	0.02	UJ	0.02	UJ
Endosulfan sulfate	0.02	U	0.02	U	0.02	U
4,4-DDT	0.02	U	0.02	U	0.02	U
Methoxychlor	0.1	UJ	0.1	UJ	0.1	UJ
Endrin ketone	0.02	UJ	0.02	UJ	0.02	UJ
Endrin aldehyde	0.02	UJ	0.02	UJ	0.02	UJ
alpha-Chlordane	0.01	UJ	0.01	UJ	0.01	UJ
gamma-Chlordane	0.01	UJ	0.01	UJ	0.01	UJ
Toxaphene	1	U	1	U	1	U
Aroclor-1016	0.2	U	0.2	U	0.2	U
Aroclor-1221	0.4	U	0.4	U	0.4	U
Aroclor-1232	0.2	U	0.2	U	0.2	U
Aroclor-1242	0.2	U	0.2	U	0.2	U
Aroclor-1248	0.2	U	0.2	U	0.2	U
Aroclor-1254	0.2	U	0.2	U	0.2	U
Aroclor-1260	0.2	U	0.2	U	0.2	U

UJ substituted for M flags assigned due to missing lab control sample.

UJ for delta-BHC, heptachlor, endosulfan II, 4,4-DDD, methoxychlor, endrin ketone, endrin aldehyde, and gamma-chlordane for calibration exceeding primary criteria..

UJ substituted for VS for alpha-chlordane for result outside RT window established during initial calibration.

```

-----
| FILE NAME. MYOK83  DATE: 06/04/2002  TIME: 16:18  |
-----
| CRITERIA FILE: FGDR194  |
-----
| Total TAL + CN          DATA  |
-----
| | Original              |X| Qualified  |
-----
|              QUALIFICATIONS PERFORMED  |
-----
| | Quantitation Limit    |X| CRDL Standards  |
|X| Percent Moisture      |X| ICS              |
|X| Holding Time          |X| LCS              |
|X| Calibrations          |X| Duplicates       |
|X| Matrix Spikes        |X| Furnace AA QC   |
| | IPC                  |X| ICP Serial Dilutions  |
| | Internal Standards   |X| Sample Results Verification |
| | SMC/Surrogates       |X| Laboratory Blanks  |
| | System Performance    | | Field QC         |
| | Sample Cleanup       | |                  |
-----
|              PRINT NON-DETECTS  |
-----
|X| Yes                   | | No              |
-----
|              PRINT REJECTED RESULTS  |
-----
|X| Yes                   | | No              |
-----

```

No exceptions to data flags.

Due to low matrix spike recoveries for CN, selected results are flagged as hits = J, and non-detects = UJ. However that some samples are associated with a blank concentration >IDL and sample concentration <5X blank concentration, and flagged as hits = U, and non-detects are not flagged.

TAL QUALIFIED SPREADSHEET

Case No. 30499 Site
 SDG No. MYOK83 Total TAL + CN Laboratory: SENTINEL, INC

PLA SAMPLE NUMBER	MYOK83	MYOK85	MYOK85A	MYOK85D	MYOK85S
REGIONAL SAMPLE NUMBER	MYOK83	MYOK85	MYOK85A	MYOK85D	MYOK85S
SAMPLE LOCATION	GW202-MW07A-0041	GW.02-MW03A-0042	GW202-MW03A-	GW202-MW03A-	GW202-MW03A-
SAMPLE TYPE	Routine Sample	Routine Sample	Post Digest Spike	Duplicate Sample	Matrix Spike
MATRIX ANALYSIS	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR					
PERCENT SOLID	0.0	0.0	0.0	0.0	0.0
INORG					
Aluminum	299	216		204	2290
Antimony	3.8 U	3.8 U		3.8 U	521
Arsenic	6.7	9.5		10.0	54.4
Barium	28.6	38.5		38.9	2160
Beryllium	0.95	0.30 U		0.30 U	52.1
Cadmium	0.64	0.50 U		0.50 U	52.1
Calcium	298000	129000		132000	
Chromium	0.93	0.80 U		0.80 U	208
Cobalt	1.2 U	1.2 U		1.2 U	519
Copper	1.8	1.4 U		1.4 U	269
Iron	137	395		401	1470
Lead	2.8 U	2.8 U		2.8 U	20.9
Magnesium	92800	42400		43500	
Manganese	1.7	141		144	676
Mercury	0.10 U	0.10 U		0.10 U	0.98
Nickel	1.7 U	2.0		1.9	521
Potassium	6080	3840		3910	
Selenium	27.0	2.2 U		2.2 U	9.4
Silver	1.1 U	1.1 U		1.1 U	49.2
Sodium	201000	161000		165000	
Thallium	3.5 U	3.5 U		3.5 U	51.7
Vanadium	4.2	3.5		3.6	527
Zinc	20.0	2.0		1.4 U	518
Cyanide	1.4 U	0.87 U	15.7 U	1.1 U	47.1

FILE NAME MYOK83 DATE 06/04/2002 TIME 16:18 CADRE99 PAGE 1

Water units are reported in ug/L
 Soil units are reported in mg/Kg

TAL QUALIFIED SPREADSHEET

Case No: 30499

Site:

SDG No: MY0K83 Total TAL + CN

Laboratory: SENTINEL, INC.

EPA SAMPLE NUMBER:	MY0K87	MY0K89	MY0K91	MY0K93	MY0K95
REGIONAL SAMPLE NUMBER:	MY0K87	MY0K89	MY0K91	MY0K93	MY0K95
SAMPLE LOCATION:	GW202-MW-04A-0047	GW202-MW04B-0075	GW202-MW04B-1075	GW202-MW04C-0094	GW202-MW11A-0045
SAMPLE TYPE:	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample
MATRIX/ANALYSIS:	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:					
PERCENT SOLID:	0.0	0.0	0.0	0.0	0.0
INORG					

Aluminum	201	271	208	258	278
Antimony	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Arsenic	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Barium	46.2	56.8	56.9	57.8	24.4
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	171000	158000	158000	162000	247000
Chromium	40.6	49.5	49.0	17.9	0.80 U
Cobalt	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Iron	20.6	64.9	17.0 U	60.7	94.3
Lead	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Magnesium	52300	43500	43400	47100	73200
Manganese	0.40 U	6.8	4.3	4.4	1.1
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Potassium	3650	4450	4530	5160	6420
Selenium	9.0	8.1	5.1	8.4	25.1
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	128000	84800	85800	88200	150000
Thallium	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Vanadium	4.4	4.7	5.3	5.3	2.6
Zinc	1.4 U	1.8	12.7	2.9	1.7
Cyanide	1.9 U	0.70 U	1.0 U	1.3 U	1.0 U

FILE NAME: MY0K83 DATE: 06/04/2002 TIME: 16:18 CADRE99

PAGE: 2

Water units are reported in ug/L.
Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Base File: 214

Site:

DG N MYOK83 Total TAL + CN

Laborator, SENTINEL, INC

REGIONAL CAMPF N MBER	MYOK83	MYOK89	MYOKA1	MYOKA3
AMPLE LOCATION	IGW20-MW08B-0070	IGW202-MW08C-0087	IGW202-MW08A-0040	IGW202-MW08E-0114
AMPLE TYPE	Routine Sample	Routine Sample	Routine Sample	Routine Sample
MATRIX ANALYSIS	Water/L w	Water/Low	Water/Low	Water Low
DILUTION FACTOR				
PERCENT SOLID	0.0	0.0	0.0	0.0
ANIONS				
Aluminum	260	304	334	241 U
Antimony	3.8 U	3.8 U	3.8 U	3.8 U
Arsenic	3.0 U	17.8	3.0 U	8.7
Barium	26.7	26.5	76.3	89.6
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	210000	193000	212000	147000
Chromium	5.0	1.7	72.0	0.80 U
Cobalt	1.2 U	1.2 U	1.2 U	1.2 U
Copper	1.4 U	1.6	1.4 U	1.6
Iron	17.0 U	410	217	63.6
Lead	2.8 U	2.8 U	2.8 U	2.8 U
Magnesium	58300	52800	56700	41700
Manganese	0.40 U	402	1.8	488
Mercury	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	1.7 U	1.7 U	1.7 U	1.7 U
Potassium	5790	6020	6020	4470
Selenium	5.6	3.7	80.6	6.6
Silver	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	108000	114000	154000	62100
Thallium	3.5 U	3.5 U	3.5 U	3.5 U
Vanadium	3.7	2.9	3.0	1.3
Zinc	1.4 U	10.9	1.4 U	3.2
Cyanide	2.3 U	0.70 U	0.70 U	1.0 U

FILE NAME MYOK83 DATE 06/04/2002 TIME 16 18 CADRE99

PAGE 3

Water units are reported in ug/L
Soil units are reported in mg/Kg

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-----|
| FILE NAME: MYOK84  DATE: 06/04/2002  TIME: 16:17  |
|-----|
| CRITERIA FILE: FGDR194  |
|-----|
| Dissolved TAL          DATA  |
|-----|
| | Original              |X| Qualified  |
|-----|
|              QUALIFICATIONS PERFORMED  |
|-----|
| | Quantitation Limit    |X| CRDL Standards  |
|X| Percent Moisture      |X| ICS              |
|X| Holding Time          |X| LCS              |
|X| Calibrations          |X| Duplicates       |
|X| Matrix Spikes         |X| Furnace AA QC    |
| | IPC                   |X| ICP Serial Dilutions  |
| | Internal Standards    |X| Sample Results Verification  |
| | SMC/Surrogates        |X| Laboratory Blanks  |
| | System Performance    | | Field QC         |
| | Sample Cleanup        | |                   |
|-----|
|              PRINT NON-DETECTS  |
|-----|
|X| Yes                    | | No              |
|-----|
|              PRINT REJECTED RESULTS  |
|-----|
|X| Yes                    | | No              |
|-----|

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No exceptions to data flags.

TAL QUALIFIED SPREADSHEET

Table No 30499 Site
 GDG No MYOK84 Dissolved TAL Laboratory SENTINEL, INC

LABORATORY SAMPLE NUMBER	MYOK84	MYOK86	MYOK86D	MYOK86S	MYOK88
SAMPLE LOCATION	GW202-MW07A-	GW202-MW03A-	GW202-MW03A-	GW202-MW03A-	GW202-MW04A-
SAMPLE TYPE	Routine Sample	Routine Sample	Duplicate Sample	Matrix Spike	Routine Sample
MATRIX ANALYSIS	Water Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR					
PERCENT SOLID	0.0	0.0	0.0	0.0	0.0

INORG					
Aluminum	208	220	196	2340	185
Antimony	3.8 U	3.8 U	3.8 U	536	3.8 U
Arsenic	3.0 U	8.1	9.5	55.0	3.0 U
Barium	28.6	36.9	38.3	2190	47.2
Beryllium	0.30 U	0.30 U	0.30 U	52.5	0.30 U
Cadmium	0.50 U	0.50 U	0.50 U	52.7	0.50 U
Calcium	309000	133000	138000		174000
Chromium	0.80 U	0.80 U	0.80 U	210	42.3
Cobalt	1.2 U	1.2 U	1.2 U	525	1.2 U
Copper	2.0 U	1.8 U	1.9 U	272	2.8 U
Iron	17.0 U	450	467	1520	18.1
Lead	2.8 U	2.8 U	2.8 U	20.3	2.8 U
Magnesium	96900	43700	45400		52800
Manganese	0.40 U	153	159	694	0.54
Mercury	0.10 U	0.10 U	0.10 U	0.93	0.10 U
Nickel	1.7 U	3.7	3.4	530	2.7
Potassium	6210	3950	4100		3660
Selenium	30.7	2.2 U	2.2 U	10.3 U	7.9 U
Silver	1.1 U	1.1 U	1.1 U	50.6	1.4
Sodium	205000	168000	176000		131000
Thallium	3.5 U	3.5 U	3.5 U	53.1	3.5 U
Vanadium	4.0	3.6	3.5	535	4.5
Zinc	21.1	1.4 U	1.4 U	520	7.5
Cyanide					

FILE NAME MYOK84 DATE 06/04/2002 TIME 16 17 CADRE99 PAGE 1

Water units are reported in ug/L
 Soil units are reported in mg/Kg

TAL QUALIFIED SPREADSHEET

Case No: 30499

Site:

SDG No: MYOK84 Dissolved TAL

Laboratory: SENTINEL, INC.

EPA SAMPLE NUMBER:	IMYOK90	IMYOK92	IMYOK94	IMYOK96	IMYOK98
REGIONAL SAMPLE NUMBER:	IMYOK90	IMYOK92	IMYOK94	IMYOK96	IMYOK98
SAMPLE LOCATION:	IGW202-MW04B-	IGW202-MW04B-	IGW202-MW04C-	IGW202-MW11A-	IGW202-MW08B-
SAMPLE TYPE:	/Routine Sample				
MATRIX/ANALYSIS:	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:					
PERCENT SOLID:	0.0	0.0	0.0	0.0	0.0
INORG					
Aluminum	194	472	193	208	262
Antimony	3.8 U				
Arsenic	3.0	3.0 U	3.6	3.0 U	3.0 U
Barium	55.8	60.0	57.2	24.1	26.6
Beryllium	0.30 U				
Cadmium	0.50 U				
Calcium	155000	161000	163000	249000	207000
Chromium	48.8	50.8	18.0	0.80 U	5.2
Cobalt	1.2 U				
Copper	1.4 U	2.9 U	2.4 U	2.0 U	2.1 U
Iron	17.0 U	387	17.0 U	17.0 U	18.1
Lead	2.8 U				
Magnesium	42500	44400	47200	73200	57100
Manganese	4.3	25.3	2.4	0.40 U	0.40 U
Mercury	0.10 U	0.20	0.10 U	0.10 U	0.17
Nickel	1.7 U				
Potassium	4360	4620	5080	6530	5680
Selenium	3.8 U	6.2 U	8.0 U	25.1	6.2 U
Silver	1.1 U				
Sodium	84000	87700	89000	157000	108000
Thallium	3.5 U				
Vanadium	4.7	5.8	5.3	2.2	3.9
Zinc	4.6	1.8	15.6	9.4	2.5
Cyanide					

FILE NAME: MYOK84 DATE: 06/04/2002 TIME: 16:17 CADRE99

PAGE: 2

Water units are reported in ug/L.
Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Case No. 134 Site:
 SDG No. MY0K84 Dissolved TAL Laboratory: SENTINEL, INC.

TEST SAMPLE NUMBER:	MY0K84	MY0K82	MY0K84
REGIONAL SAMPLE NUMBER:	MY0K84	MY0K82	MY0K84
SAMPLE LOCATION:	IGW202-MW08C-	IGW202-MW08A-	IGW202-MW08D-
SAMPLE TYPE:	Routine Sample	Routine Sample	Routine Sample
MATRIX/ANALYSIS:	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:			
PERCENT SOLID:	0.0	0.0	0.0
INORG			
Aluminum	243	274	245
Antimony	3.8 UI	3.8 UI	3.8 UI
Arsenic	17.1	3.0 UI	11.0
Barium	26.0	78.2	86.6
Beryllium	0.30 UI	0.30 UI	0.30 UI
Cadmium	0.50 UI	0.50 UI	0.50 UI
Calcium	194000	220000	146000
Chromium	1.4 UI	77.3	0.80 UI
Cobalt	1.2 UI	1.2 UI	1.2 UI
Copper	1.4 UI	1.4	1.4 UI
Iron	347	17.0 UI	63.2
Lead	8.2	2.8 UI	2.8 UI
Magnesium	53000	59400	41800
Manganese	396	0.40 UI	495
Mercury	0.10 UI	0.10 UI	0.10 UI
Nickel	1.7 UI	1.7 UI	1.7 UI
Potassium	5840	6080	4310
Selenium	4.1 UI	88.4	5.5 UI
Silver	1.1 UI	1.1 UI	1.1 UI
Sodium	114000	160000	61600
Thallium	3.5 UI	3.5 UI	3.5 UI
Vanadium	3.1	2.8	1.5
Zinc	2.3	1.4 UI	3.2
Cyanide			

FILE NAME: MY0K84 DATE: 06/04/2002 TIME: 16:17 CADRE99 PAGE: 3

Water units are reported in ug/L.
 Soil units are reported in mg/Kg.

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-----|
| FILE NAME: MYOKA5  DATE: 06/07/2002  TIME: 16:03  |
|-----|
| CRITERIA FILE: FGDRI94  |
|-----|
| Total TAL + CN          DATA  |
|-----|
| | Original              |X| Qualified  |
|-----|
|              QUALIFICATIONS PERFORMED  |
|-----|
| | Quantitation Limit   |X| CRDL Standards  |
|X| Percent Moisture     |X| ICS              |
|X| Holding Time         |X| LCS              |
|X| Calibrations         |X| Duplicates       |
|X| Matrix Spikes        |X| Furnace AA QC    |
| | IPC                  |X| ICP Serial Dilutions  |
| | Internal Standards   |X| Sample Results Verification  |
| | SMC/Surrogates       |X| Laboratory Blanks  |
| | System Performance   | | Field QC         |
| | Sample Cleanup       | |                   |
|-----|
|              PRINT NON-DETECTS  |
|-----|
|X| Yes                  | | No              |
|-----|
|              PRINT REJECTED RESULTS  |
|-----|
|X| Yes                  | | No              |
|-----|

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J flags assigned to barium due to ICP serial dilution % difference outside criteria.

TAL QUALIFIED SPREADSHEET

Case No. 35499 Site: |
 DGS No. MYOKA5 Total TAL + CN Laboratory: SENTINEL, INC. |

EPA SAMPLE NUMBER:	MYOKA5	MYOKA7	MYOKA9	MYOKB1	MYOKB3
REGIONAL SAMPLE NUMBER:	MYOKA5	MYOKA7	MYOKA9	MYOKB1	MYOKB3
SAMPLE LOCATION:	IGW202-MW09A-0032	IGW202-MW09B-0054	IGW202-MW06A-0042	IGW202-MW10A-0057	IGW202-MW01A-0055
SAMPLE TYPE:	Routine Sample				
MATRIX/ANALYSIS:	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:					
PERCENT SOLID:	0.0	0.0	0.0	0.0	0.0

INORG	MYOKA5	MYOKA7	MYOKA9	MYOKB1	MYOKB3
Aluminum	323 U	269 U	262 U	632	277 U
Antimony	3.8 U				
Arsenic	8.1	3.0 U	3.0 U	4.6	3.5
Barium	34.7 J	31.9 J	48.7 J	35.2 J	66.1 J
Beryllium	0.30 U				
Cadmium	0.82	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	170000	202000	207000	196000	114000
Chromium	0.80 U	4.2	76.4	3.9	59.7
Cobalt	1.2 U				
Copper	1.5	1.4 U	1.4 U	4.3	1.4 U
Iron	180	54.0 U	57.9 U	642	80.6 U
Lead	2.8 U				
Magnesium	59600	49700	54500	53200	37300
Manganese	826	0.69	0.82	28.8	0.69
Mercury	0.10 U				
Nickel	2.3	1.7 U	1.7 U	3.4	1.7 U
Potassium	10200	6010	5030	8260	3060
Selenium	2.2 U	5.4	10.3	12.3	3.3
Silver	1.1 U				
Sodium	162000	107000	126000	139000	78800
Thallium	3.5 U				
Vanadium	2.8	2.7	2.9	3.4	5.7
Zinc	1.4	1.4 U	1.4 U	8.8	1.4 U
Cyanide	0.70 U	0.70 U	0.70 U	0.70 U	1.8

FILE NAME: MYOKA5 DATE: 06/07/2002 TIME: 16:03 CADRE99 PAGE: 1 |

Water units are reported in ug/L.
 Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Case No: 30499

Site:

SDG No: MYOKA5 Total TAL + CN

Laboratory: SENTINEL, INC.

EPA SAMPLE NUMBER:	MYOKB5	MYOKB7	MYOL36	MYOL38	MYOL40
REGIONAL SAMPLE NUMBER:	MYOKB5	MYOKB7	MYOL36	MYOL38	MYOL40
SAMPLE LOCATION:	GW202-MW01B-0080	GW202-MW01B-1080	GW202-MW05A-0049	GW202-MW02A-0055	GW202-OW7-0081
SAMPLE TYPE:	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample
MATRIX/ANALYSIS:	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:					
PERCENT SOLID:	0.0	0.0	0.0	0.0	0.0
INORG					
Aluminum	230 U	299 U	261 U	234 U	2100 U
Antimony	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Arsenic	3.0 U	3.0 U	3.0 U	3.0 U	3.1 U
Barium	43.7 J	45.1 J	54.1 J	55.6 J	29.8 J
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium	0.68 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	113000 I	114000 I	153000 I	158000 I	178000 I
Chromium	23.6 I	23.6 I	13.5 I	8.5 I	14.6 I
Cobalt	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	1.4 U	1.4 U	1.4 U	1.4 U	4.2 U
Iron	18.6 U	42.4 U	45.1 U	29.6 U	2670 U
Lead	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Magnesium	38200 I	38300 I	43800 I	47000 I	63000 I
Manganese	16.9 I	17.6 I	0.40 U	0.40 U	33.2 I
Mercury	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U
Nickel	1.7 U	1.7 U	1.7 U	1.7 U	11.8 U
Potassium	4730 I	4780 I	4000 I	3260 I	3300 I
Selenium	2.9 I	2.2 U	2.2 U	3.8 I	6.1 I
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	65900 I	66200 I	81400 I	74800 I	61300 I
Thallium	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Vanadium	4.7 I	5.2 I	4.4 I	4.9 I	12.6 I
Zinc	14.9 I	14.1 I	2.3 I	1.4 U	7.0 I
Cyanide	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U

FILE NAME: MYOKA5 DATE: 06/07/2002 TIME: 16:03 CADRE99

PAGE: 2

Water units are reported in ug/L.
Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Case No	0444	Site			
DG No	MYOKA	Total TAL + CN	Laboratory, SENTINEL, INC		
EPA SAMPLE NUMBER	MI0L42	MI0L44	MI0L46	MI0L48	MI0L50
REGIONAL SAMPLE NUMBER	MI0L42	MI0L44	MI0L46	MI0L48	MI0L50
SAMPLE LOCATION	IGW202-OW1A-0089	IGW202-OW1B-0116	IGW202-OW8-0073	IGW202-OW4A-0073	IGW202-OW4B-0125
SAMPLE TYPE	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample
MATRIX ANALYSIS	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR					
PERCENT SOLID	0.0	0.0	0.0	0.0	0.0
INORG					
Aluminum	1050	29800	276	495	294
Antimony	3.8	3.8	3.8	3.8	3.8
Arsenic	3.3	21.9	3.0	3.0	3.0
Barium	54.3	340	31.8	49.3	25.4
Beryllium	0.30	0.83	0.30	0.30	0.30
Cadmium	0.84	2.5	0.50	0.50	0.50
Calcium	183000	132000	164000	158000	98000
Chromium	3.4	79.4	0.80	17.9	1.5
Cobalt	1.2	22.6	1.2	1.2	1.2
Copper	2.6	81.9	2.2	1.8	1.4
Iron	1670	173000	177	513	175
Lead	2.8	12.5	2.8	2.8	2.8
Magnesium	48000	61800	57000	50300	59500
Manganese	805	1600	421	13.5	19.0
Mercury	0.10	0.14	0.10	0.10	0.10
Nickel	19.7	86.4	1.7	16.4	1.7
Potassium	3620	12300	2960	4860	3350
Selenium	11.0	9.2	5.0	5.7	6.9
Silver	1.1	2.9	1.1	1.1	1.1
Sodium	93000	97500	69500	115000	111000
Thallium	3.5	3.9	3.5	3.5	3.5
Vanadium	8.5	128	3.6	4.8	6.0
Zinc	6.6	2140	1.4	1.4	1.4
Cyanide	0.70	0.70	0.70	0.70	0.70

FILE NAME MYOKA5 DATE 06/07/2002 TIME 16 03 CADRE99 PAGE 3

Water units are reported in ug/L
 Soil units are reported in mg/Kg

TAL QUALIFIED SPREADSHEET

Case No: 30199 Site:
 SDG No: MYOKA5 Total TAL + CN Laboratory: SENTINEL, INC.

EPA SAMPLE NUMBER:	IMY0150D	IMY0150S	IMY0152
REGIONAL SAMPLE NUMBER:	IMY0150D	IMY0150S	IMY0152
SAMPLE LOCATION:	IGW202-OW4B-0	IGW202-OW4B-0	IGW202-OW5-0048
SAMPLE TYPE:	Duplicate Sample	Matrix Spike	Routine Sample
MATRIX ANALYSIS:	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:			
PERCENT SOLID:	0.0	0.0	0.0
INORG			

Aluminum	270 U	2320	290 U
Antimony	3.8 U	521	3.8 U
Arsenic	3.0 U	44.1	4.2
Barium	25.0 J	2110 J	61.0 J
Beryllium	0.30 U	50.7	0.30 U
Cadmium	0.50 U	49.9	0.50 U
Calcium	99100		125000
Chromium	2.0	205	43.1
Cobalt	1.2 U	501	1.2 U
Copper	1.4 U	260	2.2 U
Iron	167	1190	327
Lead	2.8 U	19.0	2.8 U
Magnesium	60600		36700
Manganese	19.1	536	8.8
Mercury	0.10 U	1.0	0.10 U
Nickel	1.7 U	503	88.2
Potassium	3310		3040
Selenium	8.6	18.2	3.5
Silver	1.1 U	48.0	1.1 U
Sodium	110000		86800
Thallium	3.5 U	51.8	3.5 U
Vanadium	5.7	518	5.5 U
Zinc	1.4 U	499	1.4 U
Cyanide	0.70 U	114	1.1

FILE NAME: MYOKA5 DATE: 06/07/2002 TIME: 16:03 CADRE99 PAGE: 4

Water units are reported in ug/L.
 Soil units are reported in mg/Kg.

```

-----
| FILE NAME: MYOKA6  DATE: 06/06/2002  TIME: 15 38
-----
| CRITERIA FILE: FGDRI94
-----
| Dissolved TAL          DATA
-----
| | Original              |X| Qualified
-----
|              QUALIFICATIONS PERFORMED
-----
| | Quantitation Limit    |X| CRDL Standards
|X| Percent Moisture      |X| ICS
|X| Holding Time          |X| LCS
|X| Calibrations          |X| Duplicates
|X| Matrix Spikes         |X| Furnace AA QC
| | IPC                  |X| ICP Serial Dilutions
| | Internal Standards    |X| Sample Results Verification
| | SMC/Surrogates        |X| Laboratory Blanks
| | System Performance    | | Field QC
| | Sample Cleanup        | |
-----
|              PRINT NON-DETECTS
-----
|X| Yes                    | | No
-----
|              PRINT REJECTED RESULTS
-----
|X| Yes                    | | No
-----

```

No exceptions to data flags.

TAL QUALIFIED SPREADSHEET

Case No: 30499

Site:

SDG No: MYOKA6 Dissolved TAL

Laboratory: SENTINEL, INC.

EPA SAMPLE NUMBER:	MYOKA6	MYOKA8	MYOKB0	MYOKB2	MYOKB4
REGIONAL SAMPLE NUMBER:	MYOKA6	MYOKA8	MYOKB0	MYOKB2	MYOKB4
SAMPLE LOCATION:	GW202-MW09A-0032	GW202-MW09B-0054	GW202-MW06A-0042	GW202-MW10A-0057	GW202-MW01A-0055
SAMPLE TYPE:	Routine Sample				
MATRIX/ANALYSIS:	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:					
PERCENT SOLID:	0.0	0.0	0.0	0.0	0.0
INORG					

Aluminum	228 U	190	176	184	162
Antimony	3.8 U				
Arsenic	9.7	3.0 U	3.0 U	3.0 U	3.5
Barium	33.2	31.8	48.6	30.5	65.9
Beryllium	0.30 U				
Cadmium	0.50 U				
Calcium	175000	205000	205000	199000	114000
Chromium	0.80 U	4.3	74.1	3.6	60.5
Cobalt	1.2 U				
Copper	2.3	2.0	2.5	4.0	2.8
Iron	139	17.0 U	17.0 U	17.0 U	17.0 U
Lead	2.8 U				
Magnesium	62000	49900	53000	53500	37100
Manganese	845	0.40 U	0.40 U	1.1	0.40 U
Mercury	0.10 U				
Nickel	2.8	1.7 U	1.7 U	2.4	1.7 U
Potassium	9960	5950	5000	8210	3060
Selenium	2.9	6.3	13.9	12.3	4.0
Silver	1.1 U				
Sodium	160000	106000	125000	142000	79100
Thallium	3.5 U				
Vanadium	2.3	2.5	2.8	2.3	5.3
Zinc	1.4 U	3.3	9.4	6.8	15.2
Cyanide					

FILE NAME: MYOKA6 DATE: 06/06/2002 TIME: 15:38 CADRE99

PAGE: 1

Water units are reported in ug/L.
Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Case No: 30449

Site:

SDG No: MYOKA6 Dissolved TAL

Laboratory: SENTINEL, INC.

EPA SAMPLE NUMBER:	11MY0K66	11MY0K66	11MY0L37	11MY0L39	11MY0L41
REGIONAL SAMPLE NUMBER:	11MY0K66	11MY0K66	11MY0L37	11MY0L39	11MY0L41
SAMPLE LOCATION:	11GW202-MW01B-0080	11GW202-MW01B-1080	11GW202-MW05A-0049	11GW202-MW02A-0055	11GW202-OW7-0081
SAMPLE TYPE:	11Routine Sample	11Routine Sample	11Routine Sample	11Routine Sample	11Routine Sample
MATRIX/ANALYSIS:	11Water/Low	11Water/Low	11Water/Low	11Water/Low	11Water/Low
DILUTION FACTOR:	11	11	11	11	11
PERCENT SOLID:	11 0.0	11 0.0	11 0.0	11 0.0	11 0.0
INORG	11	11	11	11	11
Aluminum	11 176	11 220	11 208	11 183	11 186
Antimony	11 3.8 U1	11 3.8 U1	11 3.8 U1	11 3.8 U1	11 3.8 U1
Arsenic	11 3.6	11 3.6	11 4.2	11 3.0 U1	11 3.0 U1
Barium	11 43.9	11 43.6	11 52.6	11 54.4	11 17.3
Beryllium	11 0.30 U1	11 0.30 U1	11 0.30 U1	11 0.30 U1	11 0.30 U1
Cadmium	11 0.50 U1	11 0.50 U1	11 0.50 U1	11 0.50 U1	11 0.50 U1
Calcium	11 116000	11 115000	11 155000	11 158000	11 176000
Chromium	11 24.0	11 22.4	11 13.6	11 9.1	11 3.3
Cobalt	11 1.2 U1	11 1.2 U1	11 1.2 U1	11 1.2 U1	11 1.2 U1
Copper	11 2.6	11 1.7	11 2.5	11 3.2	11 4.3
Iron	11 17.0 U1	11 22.4	11 25.7	11 21.7	11 22.5
Lead	11 2.8 U1	11 2.8 U1	11 2.8 U1	11 2.8 U1	11 2.8 U1
Magnesium	11 39200	11 38600	11 44300	11 47200	11 60900
Manganese	11 15.2	11 14.5	11 0.40 U1	11 0.40 U1	11 18.6
Mercury	11 0.10 U1	11 0.10 U1	11 0.10 U1	11 0.10 U1	11 0.10 U1
Nickel	11 2.0	11 1.7 U1	11 1.7 U1	11 1.7 U1	11 16.1
Potassium	11 4750	11 4660	11 3890	11 3150	11 2590
Selenium	11 3.4	11 4.6	11 5.9	11 6.5	11 7.6
Silver	11 1.1 U1	11 1.1 U1	11 1.1 U1	11 1.1 U1	11 1.1 U1
Sodium	11 66300	11 65400	11 81000	11 73300	11 60100
Thallium	11 3.5 U1	11 3.5 U1	11 3.5 U1	11 3.5 U1	11 3.5 U1
Vanadium	11 4.8	11 4.4	11 4.2	11 4.7	11 5.2
Zinc	11 18.7	11 3.4	11 10.5	11 10.6	11 12.3
Cyanide	11	11	11	11	11

FILE NAME: MYOKA6 DATE: 06/06/2002 TIME: 15:38 CADRE99

PAGE: 2

Water units are reported in ug/L.
Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Case No: 30499

Site:

SDG No: MYOKA6 Dissolved TAL

Laboratory: SENTINEL, INC.

EPA SAMPLE NUMBER:	IMY0L43	IMY0L45	IMY0L47	IMY0L49	IMY0L51
REGIONAL SAMPLE NUMBER:	IMY0L43	IMY0L45	IMY0L47	IMY0L49	IMY0L51
SAMPLE LOCATION:	IGW202-OW1A-0080	IGW202-OW1B-0116	IGW202-OW8-0075	IGW202-OW4A-0073	IGW202-OW4B-0125
SAMPLE TYPE:	Routine Sample	Routine Sample	Routine Sample	Routine Sample	Routine Sample
MATRIX/ANALYSIS:	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR:					
PERCENT SOLID:	0.0	0.0	0.0	0.0	0.0
INORG					
Aluminum	190	213	178	205	261
Antimony	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Arsenic	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Barium	46.4	33.3	31.2	45.0	24.2
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	178000	96800	173000	156000	99400
Chromium	0.80 U	0.80 U	0.80 U	12.2	2.0
Cobalt	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	2.8	1.4 U	1.4 U	3.3	1.4 U
Iron	208	193	116	18.6	114
Lead	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Magnesium	47300	50300	61100	49500	60700
Manganese	738	182	672	7.3	17.4
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	18.1	1.7 U	1.7 U	2.1	2.3
Potassium	3300	3270	2780	4410	3280
Selenium	11.0	5.1	7.1	5.1	7.9
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	91000	92600	70100	111000	108000
Thallium	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Vanadium	5.1	0.70 U	0.70 U	4.3	5.1
Zinc	33.6	8.9	15.8	11.2	2.1
Cyanide					

FILE NAME: MYOKA6 DATE: 06/06/2002 TIME: 15:38 CADRE99

PAGE: 3

Water units are reported in ug/L.
Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Case No. 30194

Site

REG No. MYOKA6 Dissolved TAL

Laboratory SENTINEL, INC.

EPH SAMPLE NUMBER	MY001	MY002	MY003
REGIONAL SAMPLE NUMBER	MY0151C	MY0151S	MY0151R
SAMPLE LOCATION	IGW202-OW4B-0	IGW202-OW4B-0	IGW202-OW5-0048
SAMPLE TYPE	Duplicate Sample	Matrix Spike	Routine Sample
MATRIX ANALYSIS	Water/Low	Water/Low	Water/Low
DILUTION FACTOR			
PERCENT SOLID	0.0	0.0	0.0
INORG			
Aluminum	231 U	2260	174
Antimony	3.8 U	523	3.8 U
Arsenic	3.0 U	46.9	3.4
Barium	24.4	2100	57.2
Beryllium	0.30 U	51.2	0.30 U
Cadmium	0.50 U	51.0	0.50 U
Calcium	101000		125000
Chromium	2.6	205	29.9
Cobalt	1.2 U	510	1.2 U
Copper	1.7	259	2.1
Iron	107	1140	57.1
Lead	2.8 U	20.3	2.8 U
Magnesium	61700		36800
Manganese	17.6	535	7.0
Mercury	0.10 U	0.92	0.10 U
Nickel	2.4	512	90.9
Potassium	3260		2900
Selenium	6.9	19.7	4.8
Silver	1.1 U	47.9	1.1 U
Sodium	109000		83900
Thallium	3.5 U	49.3	3.5 U
Vanadium	5.6	517	5.3
Zinc	1.6	515	8.1
Cyanide			

Water units are reported in ug/L
 Soil units are reported in mg/Kg

FILE NAME: MY0154 DATE: 06/10/2002 TIME: 16:51

CRITERIA FILE: FGDR194

Total TAL + CN, and Dissolved TAL DATA

| | Original | | Qualified
|-----

QUALIFICATIONS PERFORMED

Quantitation Limit	CRDL Standards
Percent Moisture	ICS
Holding Time	LCS
Calibrations	Duplicates
Matrix Spikes	Furnace AA QC
IPC	ICP Serial Dilutions
Internal Standards	Sample Results Verification
SMC/Surrogates	Laboratory Blanks
System Performance	Field QC
Sample Cleanup	

PRINT NON-DETECTS

| | Yes | | No
|-----

PRINT REJECTED RESULTS

| | Yes | | No
|-----

No exceptions to flags.

TAI QUALIFIED SPREADSHEET

Task No 0410
 CDG No MY0154

Site
 Laboratory, SENTINEL, INC

Total + CN or Dissolved	T+CN			Dissolved	
EPA SAMPLE NUMBER	MY0154	MY0154D	MY0154S	MY0155	MY0155D
REGIONAL SAMPLE NUMBER	MY0154	MY0154D	MY0154S	MY0155	MY0155D
SAMPLE LOCATION	IGW202-OW3-0080	IGW202-OW3-00	IGW202-OW3-00	IGW202-OW3-0080	IGW202-OW3-00
SAMPLE TYPE	Routine Sample	Duplicate Sample	Matrix Spike	Routine Sample	Duplicate Sample
MATRIX ANALYSIS	Water/Low	Water/Low	Water/Low	Water/Low	Water/Low
DILUTION FACTOR					
PERCENT SOLID	0.0	0.0	0.0	0.0	0.0
INJRG					
Aluminum	875	805	2920	197	178
Antimon,	3.8	3.8	533	3.8	3.8
Arsenic	3.0	3.0	43.5	3.0	3.0
Barium	28.2	28.1	2200	24.6	25.0
Beryllium	0.30	0.30	51.5	0.30	0.30
Cadmium	0.50	0.50	51.4	0.50	0.50
Calcium	177000	178000		177000	183000
Chromium	5.9	5.4	212	3.2	3.3
Cobalt	1.2	1.2	508	1.2	1.2
Copper	2.1	2.2	270	2.4	2.1
Iron	1140	1140	2170	39.4	31.2
Lead	2.8	2.8	18.7	2.8	2.8
Magnesium	60000	60400		59500	61700
Manganese	17.8	17.8	542	2.7	2.7
Mercury	0.10	0.10	0.93	0.10	0.10
Nickel	2.6	1.9	511	1.9	1.9
Potassium	2940	2940		2760	2820
Selenium	7.5	7.6	18.7	7.9	6.6
Silver	1.1	1.1	49.9	1.1	1.1
Sodium	64800	64100		64000	66200
Thallium	3.5	3.5	51.1	3.5	3.5
Vanadium	7.3	6.9	530	5.5	5.4
Zinc	3.7	3.3	503	15.9	14.0
Cyanide	0.70	0.70	85.5		

FILE NAME MY0154 DATE 06/10/2002 TIME 16:51 CADRE99

PAGE 1

Water units are reported in ug/L
 Soil units are reported in mg/Kg

TAL QUALIFIED SPREADSHEET

Asp No 30499
SDG No MY0L54

Site
Laboratory SENTINEL, INC

Total + CN or Dissolved		T+CN		Dissolved		T+CN		Dissolved	
FPA SAMPLE NUMBER	MY0L55S	MY0L56		MY0L57		MY0L58		MY0L59	
REGIONAL SAMPLE NUMBER	MY0L55S	MY0L56		MY0L57		MY0L58		MY0L59	
SAMPLE LOCATION	IGW202-OW3-00	IGW202-OW2-0078		IGW202-OW2-0078		IGW202-OW6-0048		IGW202-OW6-0048	
SAMPLE TYPE	Matrix Spike	Routine Sample		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS	Water Low	Water/Low		Water/Low		Water Low		Water Low	
DILUTION FACTOR									
PERCENT SOLID	0.0	0.0		0.0		0.0		0.0	
INORG									
Aluminum	2290	196	U	285	U	232	U	248	U
Antimon,	549	3.8	U	3.8	U	3.8	U	3.8	U
Arsenic	46.0	3.0	U	3.0	U	3.0	U	3.0	U
Barium	2240	39.8		40.8		31.5		31.3	
Ber,llium	53.1	0.30	U	0.30	U	0.30	U	0.30	U
Cadmium	53.8	0.50	U	0.50	U	0.50	U	0.50	U
Calcium		140000		141000		197000		195000	
Chromium	214	3.1		2.6		0.80	U	0.80	U
Cobalt	525	1.2	U	1.2	U	1.2	U	1.2	U
Copper	274	1.6		1.4	U	1.4	U	1.7	
Iron	1080	36.4	U	38.8	U	35.2	U	30.7	U
Lead	20.8	2.8	U	2.8	U	2.8	U	2.8	U
Magnesium		52900		52900		61800		61100	
Manganese	539	0.40	U	0.60		0.40	U	0.56	
Mercury	0.92	0.10	U	0.10	U	0.75		0.67	
Nickel	524	1.7	U	1.7	U	1.7	U	1.7	U
Potassium		2640		2660		3510		3480	
Selenium	18.3	7.9		9.4		2.4		2.2	U
Sil er	50.8	1.1	U	1.1	U	1.1	U	1.1	U
Sodium		63400		62600		104000		102000	
Thallium	52.1	3.5	U	3.5	U	3.5	U	3.5	U
Vanadium	538	5.8		5.9		5.6		5.3	
Zinc	535	1.4	U	6.3	U	1.4	U	8.8	U
Cyanide		0.70	U			0.70	U		

FILE NAME MY0L54 DATE 06/10/2002 TIME 16 51 CADRE99

PAGE 2

Water units are reported in ug/L
Soil units are reported in mg/Kg

TAL QUALIFIED SPREADSHEET

Case No: 20499
SDG No: MY0154

Site:
Laboratory: SENTINEL, INC.

Total + CN or Dissolved	T+CN	Dissolved		
EPA SAMPLE NUMBER:	MY0160	MY0161		
REGIONAL SAMPLE NUMBER:	MY0160	MY0161		
SAMPLE LOCATION:	GW202-OW6-1048	GW202-OW6-1048		
SAMPLE TYPE:	Routine Sample	Routine Sample		
MATRIX/ANALYSIS:	Water/Low	Water/Low		
DILUTION FACTOR:				
PERCENT SOLID:	0.0	0.0		
INORG				

Aluminum	233	224	U	U
Antimony	3.8	3.8	U	U
Arsenic	3.0	3.0	U	U
Barium	32.6	31.2		
Beryllium	0.30	0.30	U	U
Cadmium	0.50	0.50	U	U
Calcium	204000	195000		
Chromium	0.80	0.80	U	U
Cobalt	1.2	1.2	U	U
Copper	1.6	1.6		
Iron	35.4	19.7	U	U
Lead	2.8	2.8	U	U
Magnesium	63900	61100		
Manganese	0.40	0.40	U	U
Mercury	0.84	0.74		
Nickel	1.7	1.7	U	U
Potassium	3660	3470		
Selenium	2.2	2.2	U	U
Silver	1.1	1.1	U	U
Sodium	108000	103000		
Thallium	3.5	3.5	U	U
Vanadium	5.9	5.1		
Zinc	1.4	3.8	U	U
Cyanide	0.70		U	

FILE NAME: MY0154 DATE: 06/10/2002 TIME: 16:51 CADRE99 PAGE: 3

Water units are reported in ug/L.
Soil units are reported in mg/Kg.



ICF Consulting / Laboratory Data Consultants

Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Nancy Riveland-Har
Remedial Project Manager
Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong *RF*
ESAT Project Officer
Quality Assurance (QA) Office, PMD-3

FROM: Doug Lindelof *D Lindelof DL*
Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order No.: B01
Technical Direction No.: B0105132

DATE: August 6, 2002

SUBJECT: Tier 1A Cover Memo for Omega Chem OU-2 Site, Case No. 11-BBCO-27.0, SDG Nos. 02E241, 02E247 and 02F003, Water Samples for 1,4-Dioxane by SW-846 Method 8270C and Selective Ion Monitoring.

A limited evaluation of the data package was performed to identify any key analytical issues/deficiencies affecting data quality. This evaluation approach is employed when in-depth data review is not required as indicated by the data user. During this limited evaluation, areas of concern were noted (see Lettered and Additional Comments).

The evaluation included: a review of the data package for completeness; review of the chain of custody forms (against laboratory reported information, for signatures, for sample condition upon receipt by the laboratory and for sample preservation); review of holding times; review of QC summaries; review of blanks for contamination; review of standards data; random check of reported results against raw data; random check of raw data for interference problems or system control problems (e.g. baseline anomalies, baseline drifts, etc.).

The following data quality issues should be noted:

- A. Results denoted with an "L" qualifier are estimated and flagged "J" in Tier 1A Table 1A. Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.
- B. Detected results and quantitation limits for 1,4-dioxane in method blank SVF002WB and all samples except GW202-OW1B-0116 are qualified as nondetected and estimated and flagged "J" in Tier 1A Table 1A due to laboratory control sample/laboratory control sample duplicate (LCS/LCSD) problem (relative percent difference = 88%; QC limit \leq 30%). The LCS/LCSD and associated samples were not re-extracted.

- C. In the analysis of the field duplicate pair GW202-OW6-0048 and GW202-OW6-1048, a relative percent different value of 172% was obtained for 1,4-dioxane (QC limits $\leq 25\%$). The effect on data quality is not known.

Additional Comments:

Sample GW202-OW1A-0080 was analyzed at a 940-fold dilution due to the high level of 1,4-dioxane (15,000 ug/L). Consequently, the surrogate was diluted-out and could not be evaluated by the reviewer.

Tier 1A Table 1A is attached.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment.

ANALYTICAL RESULTS

Case No 11-BCCO-27 0
 Site Omega Chem OU-2
 Lab EMAX
 Reviewer Santiago Lee, ESAT/LDC
 Date August 6 2002

Tier 1A Table 1A

QUALIFIED DATA
 Concentration in ug/L

Analysis Type Water Samples for 1,4-Dioxane
 by EPA Method 8270C SIM

Sample Delivery Group No	O2E241			O2E241			O2E241			O2E241			O2E241		
Station Location	GW202-OW07-0081			GW202-OW1B-0116			GW202-OW1A-0080			Method Blank SVF002WB			Method Blank SVF006WB		
Sample ID										N/A			N/A		
Collection Date	05/29/02			05/29/02			05/29/02			N/A			N/A		
Dilution Factor	0.94			0.94			0.94			1.0			1.0		
Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	0.94U	J	B	9.2			15,000	J	B	1.0U	J	B	1.0U		

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2 etc - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank TB - Trip Blank, BG - Background Sample

NR - Not reported

Sample Delivery Group No	O2E247			O2E247			O2E247			O2E247			O2E247		
Station Location	GW202-OW8-0075			GW202-OW4A-0073			GW202-OW4B-0125			GW202-OW5-0048			GW202-OW4B-0125MS		
Sample ID															
Collection Date	05/30/02			05/30/02			05/30/02			05/30/02			05/30/02		
Dilution Factor	0.98			0.94			0.94			0.94			0.94		
Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	270	J	B	6.5	J	B	0.94U	J	B	0.94U	J	B	14.2	J	B

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2 etc - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank TB - Trip Blank, BG - Background Sample

NR - Not reported

ANALYTICAL RESULTS
Tier 1A Table 1A

Case No 11-BCCO-27 0
Site Omega Chem OU-2
Lab EMAX
Reviewer Santiago Lee ESAT/LDC
Date August 6 2002

QUALIFIED DATA
Concentration in ug/L

Analysis Type Water Samples for 1,4-Dioxane
by EPA Method 8270C SIM

Sample Delivery Group No	O2E247			O2E247			02F003			02F003			02F003		
Station Location	GW202-OW4B-0125MSD			Method Blank			GW202-OW3-0080			GW202-OW2-0078			GW202-OW6-0048 D1		
Sample ID	GW202-OW4B-0125MSD			SVF002WB			GW202-OW3-0080			GW202-OW2-0078			GW202-OW6-0048 D1		
Collection Date	05/30/02			N/A			05/31/02			05/31/02			05/31/02		
Dilution Factor	0.94			1.0			0.94			0.97			0.94		
Organophosphorus Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	13.5	J	B	1.0U	J	B	12	J	B	6.6	J	B	0.65	J	ABC

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1 D2, etc - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank, TB - Trip Blank BG - Background Sample

NR - Not reported

Sample Delivery Group No	02F003			02F003											
Station Location	GW202-OW6-1048 D1			Method Blank			CRQL								
Sample ID	GW202-OW6-1048 D1			SVF002WB			CRQL								
Collection Date	05/31/02			N/A			CRQL								
Dilution Factor	0.94			1.0			CRQL								
Organophosphorus Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,4-Dioxane	8.6	J	BC	1.0U	J	B	1.0								

Val - Validity Refer to Data Qualifiers in Table 1B

Com - Comments Refer to the Corresponding Section in the Narrative for each letter

CRQL - Contract Required Quantitation Limit N/A - Not Applicable NA - Not Analyzed

D1 D2, etc - Field Duplicate Pairs

FB - Field Blank EB - Equipment Blank TB - Trip Blank BG - Background Sample

NR - Not reported

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," February 1994.

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX LABORATORY
1337 S. 46TH STREET
BLDG. 201
RICHMOND, CA 94804-4698

JUN 28 1997

MEMORANDUM

SUBJECT: Case R02S46
Results for Perchlorate Analysis

FROM: *Brenda Bettencourt*
Brenda Bettencourt, Director
EPA Region 9 Laboratory (PMD-2)

TO: Nancy Riveland-Har, Environmental Protection Specialist
Sample Cleanup Section 4 (SFD-7-4)

Attached are the report narratives and results spreadsheets from analysis of samples from the Omega Chemical Superfund site. These data have been reviewed in accordance with EPA Region 9 Laboratory policy. Summary information for the data included in this report is as follows:

SITE/PROJECT:	Omega Chemical
CASE:	R02S46
LABORATORY:	U. S. EPA Region 9 Laboratory
SAMPLE DELIVERY GROUP(S):	02142A, 02151A
ANALYSIS:	Perchlorate (EPA method 314.0)

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions please contact Rich Bauer at (510) 412-2312, or Ken Hendrix at (510) 412-2321.

ATTACHMENT: Analytical Report

USEPA REGION 9 LABORATORY
REPORT NARRATIVE

CASE NUMBER: R02S46
SAMPLE DELIVERY GROUP: 02142A
PROGRAM: SUPERFUND
DOCUMENT CONTROL #: B0101095-1588
DATE: 06/17/02
ANALYSIS: Perchlorate
SAMPLE NUMBERS:

<u>SAMPLE ID</u>	<u>LABORATORY SAMPLE ID</u>
GW202-MW07A-0041	AB35432
GW202-MW03A-0042	AB35433
GW202-MW04A-0047	AB35434
GW202-MW04B-1075	AB35544
GW202-MW04B-0075	AB35545
GW202-MW04C-0094	AB35546
GW202-MW11A-0045	AB35547
GW202-MW08A-0040	AB35548
GW202-MW08B-0070	AB35549
GW202-MW08C-0087	AB35550
GW202-MW08D-0116	AB35551
GW202-MW09A-0032	AB35558
GW202-MW09B-0054	AB35559
GW202-MW06A-0042	AB35560
GW202-MW10A-0057	AB35561
GW202-MW01A-0055	AB35595
GW202-MW01B-0080	AB35596
GW202-MW01B-1080	AB35597
GW202-MW05A-0049	AB35598
GW202-MW02A-0055	AB35599

GENERAL COMMENTS

Twenty water samples were received from the Omega Chemical Quarterly Superfund project from 05/22/02 through 05/29/02.

The requested analysis was perchlorate by Region 9 Laboratory SOP #531 (EPA Method 314.0). All samples were analyzed within the 28-day holding time.

SAMPLE RECEIPT AND PRESERVATION

No shipping or preservation issues were encountered.

QC COMMENTS

The following comment appears on the summary of Analytical Results:

A. All detected results less than the quantitation limit (QL) are estimated (J).

No perchlorate was detected in the LRBs associated with this sample delivery group.

The LFM and LFM duplicate recoveries for perchlorate were within the 70-130% QC limits.

The relative percent differences (RPDs) between the LFM and LFM duplicate for perchlorate were less than the 20% QC limit.

The perchlorate LFB recoveries were within the 90-110% QC limits.

Questions concerning the data can be answered by Osell Salvador at (510) 412-2358.

GLOSSARY

Laboratory Reagent Blanks (LRB)

A laboratory reagent blank is laboratory reagent water or baked sand with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. The laboratory reagent blank is used to determine the level of contamination introduced by the laboratory during analysis.

Laboratory Fortified Matrix (LFM), Laboratory Fortified Matrix Duplicate (LFMD) and Laboratory Duplicate (LD) Analysis

The laboratory fortified matrix spike sample and laboratory duplicate analyses provide information about the effect of the sample matrix on sample preparation and measurement. Poor percent recovery (%R) results and large relative percent difference (RPD) between duplicates may indicate inconsistent laboratory technique, sample nonhomogeneity in soils, or matrix effects which may interfere with analysis.

Laboratory Fortified Blank (LFB) Analysis

The laboratory fortified blank is laboratory reagent water or baked sand with a known concentration of the analytes of interest added by the laboratory with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. Poor percent recovery (%R) results may indicate inconsistent laboratory technique.

Site: Omega Chemical
 Case: R02S46
 SDG: 02142A
 Date: 06/17/02
 Analysis: Perchlorate
 Matrix: Water

Sample No.			GW202-MW07A-0041			GW202-MW03A-0042			GW202-MW04A-0047			GW202-MW04B-1075			GW202-MW04B-0075		
Lab Sample I.D.			AB35432			AB35433			AB35434			AB35544			AB35545		
Collection Date			05/21/02			05/21/02			05/21/02			05/22/02			05/22/02		
Units			ug/L			ug/L			ug/L			ug/L			ug/L		
Analyte	CAS #	EPA Method	Result	Q	Com												
Perchlorate		314.0	5			1	J	A	3			6			6		

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

SUMMARY OF ANALYTICAL RESULTS

Site: Omega Chemical
 Case: R02S46
 SDG: 02142A
 Date: 06/17/02
 Analysis: Perchlorate
 Matrix: Water

Sample No.			GW202-MW04C-0094			GW202-MW11A-0045			GW202-MW08A-0040			GW202-MW08B-0070			GW202-MW08C-0087		
Lab Sample I.D.			AB35546			AB35547			AB35548			AB35549			AB35550		
Collection Date			05/22/02			05/22/02			05/23/02			05/23/02			05/23/02		
Units			ug/L			ug/L			ug/L			ug/L			ug/L		
Analyte	CAS #	EPA Method	Result	Q	Com												
Perchlorate		314.0	3			6			4			4			2		

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

SUMMARY OF ANALYTICAL RESULTS

Site: Omega Chemical
 Case: R02S46
 SDG: 02142A
 Date: 06/17/02
 Analysis: Perchlorate
 Matrix: Water

Sample No.	GW202-MW08D-0116			GW202-MW09A-0032			GW202-MW09B-0054			GW202-MW06A-0042			GW202-MW10A-0057				
Lab Sample I.D.	AB35551			AB35558			AB35559			AB35560			AB35561				
Collection Date	05/23/02			05/24/02			05/24/02			05/24/02			05/24/02				
Units	ug/L			ug/L			ug/L			ug/L			ug/L				
Analyte	CAS #	EPA Method	Result	Q	Com	Result	Q	Com									
Perchlorate		314.0	2	U		2	U		4			4			4		

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

LAB REGION 7 LABORATORY - RICHMOND, CA
 SUMMARY OF ANALYTICAL RESULTS

Site: Omega Chemical
 Case: R02S46
 SDG: 02142A
 Date: 06/17/02
 Analysis: Perchlorate
 Matrix: Water

Sample No			GW202-MW01A-0055			GW202-MW01B-0080			GW202-MW01B-1080			GW202-MW05A-0049			GW202-MW02A-0055		
Lab Sample I D			AB35595			AB35596			AB35597			AB35598			AB35599		
Collection Date			05/28/02			05/28/02			05/28/02			05/28/02			05/28/02		
Units			ug/L			ug/L			ug/L			ug/L			ug/L		
Analyte	CAS #	EPA Method	Result	Q	Com												
Perchlorate		3140	3			2			3			4			7		

Com - Comments refer to the corresponding section in the report narrative for each letter

N/A - Not Applicable

N/R - Not Required

Q - Refer to data qualifiers

U - Parameter analyzed, but not detected, associated value is quantitation limit, adjusted for dilution

J - The associated value is an estimated quantity

Site: Omega Chemical
 Case: R02S46
 SDG: 02142A
 Date: 06/17/02
 Analyte: Perchlorate
 Matrix: Water

Sample No.			N/A Reagent Blank			N/A Reagent Blank			Method QL
Lab Sample I.D.			N/A			06/03/02			
Collection Date			ug/L			ug/L			ug/L
Units									
Analyte	CAS #	EPA Method	Result	Q	Com	Result	Q	Com	QL
Perchlorate		314.0	2	U		2	U		2

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

USEPA REGION 9 LABORATORY
REPORT NARRATIVE

CASE NUMBER: R02S46
SAMPLE DELIVERY GROUP: 02151A
PROGRAM: SUPERFUND
DOCUMENT CONTROL #: B0101095-1585
DATE: 06/18/02
ANALYSIS: Perchlorate
SAMPLE NUMBERS:

<u>SAMPLE ID</u>	<u>LABORATORY SAMPLE ID</u>
GW202-OW7-0081	AB35613
GW202-OW1B-0116	AB35614
GW202-OW1A-0080	AB35615
GW202-OW8-0075	AB35616
GW202-OW4A-0073	AB35617
GW202-OW4B-0125	AB35618
GW202-OW5-0048	AB35619
GW202-OW3-0080	AB35623
GW202-OW2-0078	AB35624
GW202-OW6-0048	AB35625
GW202-OW6-1048	AB35626

GENERAL COMMENTS

Eleven water samples were received from the Omega Chemical Superfund project on 05/31/02 and 06/01/02.

The requested analysis was perchlorate by Region 9 Laboratory SOP #531 (EPA Method 314.0). All perchlorate analyses were performed within the 28-day holding time.

SAMPLE RECEIPT AND PRESERVATION

No shipping or preservation issues were encountered.

QC COMMENTS

The following comment appears on the Summary of Analytical Results:

A. All detected results less than the quantitation limit (QL) are estimated (J).

No analyte was detected in the LRBs associated with this sample delivery group.

The LFM and LFM duplicate recoveries for perchlorate were within the 70-130% QC limits.

The relative percent differences (RPDs) between the LFM and LFM duplicate for perchlorate were less than or equal to the 20% QC limit.

The perchlorate LFB recovery was within the 90-110% QC limits.

Questions concerning the data can be answered by Osell Salvador at (510) 412-2358.

GLOSSARY

Laboratory Reagent Blanks (LRB)

A laboratory reagent blank is laboratory reagent water or baked sand with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. The laboratory reagent blank is used to determine the level of contamination introduced by the laboratory during analysis.

Laboratory Fortified Matrix (LFM), Laboratory Fortified Matrix Duplicate (LFMD) and Laboratory Duplicate (LD) Analysis

The laboratory fortified matrix spike sample and laboratory duplicate analyses provide information about the effect of the sample matrix on sample preparation and measurement. Poor percent recovery (%R) results and large relative percent difference (RPD) between duplicates may indicate inconsistent laboratory technique, sample nonhomogeneity in soils, or matrix effects which may interfere with analysis.

Laboratory Fortified Blank (LFB) Analysis

The laboratory fortified blank is laboratory reagent water or baked sand with a known concentration of the analytes of interest added by the laboratory with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. Poor percent recovery (%R) results may indicate inconsistent laboratory technique.

**EPA Region 9 Laboratory - Richmond, CA
SUMMARY OF ANALYTICAL RESULTS**

Site: Omega Chemical
Case: R02S46
SDG: 02151A
Date: 06/18/02
Analysis: Perchlorate
Matrix: Water

Sample No.			GW202-OW7-0081			GW202-OW1B-0116			GW202-OW1A-0080			GW202-OW8-0075		
Lab Sample I.D.			AB35613			AB35614			AB35615			AB35616		
Collection Date			05/29/02			05/29/02			05/29/02			05/30/02		
Units			ug/L			ug/L			ug/L			ug/L		
Analyte	CAS #	EPA Method	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com
Perchlorate		314.0	3			2			3			3		

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

The results are reported in ug/L.

EPA Region 9 Laboratory - Richmond, CA
SUMMARY OF ANALYTICAL RESULTS

Site: Omega Chemical
Case: R02S46
SDG: 02151A
Date: 06/18/02
Analysis: Perchlorate
Matrix: Water

Sample No.			GW202-OW4A-0073			GW202-OW4B-0125			GW202-OW5-0048			GW202-OW3-0080		
Lab Sample I.D.			AB35617			AB35618			AB35619			AB35623		
Collection Date			05/30/02			05/30/02			05/30/02			05/31/02		
Units			ug/L			ug/L			ug/L			ug/L		
Analyte	CAS #	EPA Method	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com
Perchlorate		314.0	6			2			4			3		

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.
The results are reported in ug/L.

**EPA Region 9 Laboratory - Richmond, CA
SUMMARY OF ANALYTICAL RESULTS**

Site: Omega Chemical
Case: R02S46
SDG: 02151A
Date: 06/18/02
Analysis: Perchlorate
Matrix: Water

Sample No.			GW202-OW2-0078			GW202-OW6-0048			GW202-OW6-1048			Reagent Blank		
Lab Sample I.D.			AB35624			AB35625			AB35626			N/A		
Collection Date			05/31/02			05/31/02			05/31/02			N/A		
Units			ug/L			ug/L			ug/L			ug/L		
Analyte	CAS #	EPA Method	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com
Perchlorate		314.0	3			2	U		1	J	A	2	U	

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

The results are reported in ug/L.

**EPA Region 9 Laboratory - Richmond, CA
SUMMARY OF ANALYTICAL RESULTS**

Site: Omega Chemical
 Case: R02S46
 SDG: 02151A
 Date: 06/18/02
 Analysis: Perchlorate
 Matrix: Water

Sample No.			Filtered Reagent Blank			Method QL
Lab Sample I.D.			N/A			
Collection Date			ug/L			
Units			ug/L			
Analyte	CAS #	EPA Method	Result	Q	Com	QL
Perchlorate		314.0	2	U		2

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - Parameter analyzed, but not detected; associated value is quantitation limit, adjusted for dilution.

J - The associated value is an estimated quantity.

The results are reported in ug/L.

**APPENDIX D
CHAINS OF CUSTODY**



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. 9	3. Sampling Co. Weston	4. Date Shipped 5-21-02	Carrier Fed Ex	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		Sampler (Name) Amanda K. Cohen		Airbill Number 8336 8601 6830			
Site Name Omega DV2		Sampler Signature <i>A.K. Cohen</i>		5. Ship To: A4 Scientific 1544 Sawdust Rd., Suite 505 The Woodlands, TX 77380 281-292-5277 ATTN: Reddy Pakanati			
City, State Whittier, CA	Site Spill ID	Op Unit		3. Purpose**			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one)		TA (circle one)		TA (circle one)							
					PR*	7 14 21	PR*	7 14 21	PR*	7 14 21						
Y06NO	2	L	G	5					X	X	GW202-MW07-0041	5-21-02/1030	MYOK84/3	AK		
<i>all</i>																

Shipment for Case Complete? (Y/N) <i>(N)</i>	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample #: <i>N/A</i>	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #: <i>(N)</i>		
		Pest/PCB MS/MSD Required? Y/N	Sample #: <i>(N)</i>		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <i>Bill Clarke</i>	Date / Time 5-21-02 1730	Received by: (Signature) <i>Federal Express</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No
30499

1 Project Code		2 Region No 9	3 Sampling Co Weston	4 Date Shipped 5-21-02	Carrier Fed Ex	6 Matrix (Enter in Column A) 1 Surface Water 2 Ground Water 3 Leachate 4 Field QC 5 Soil/Sediment 6 PE-water 7 PE-soil 8 Other (specify in Column A)	7 Preservative (Enter in Column D) 1 HCl 2 HNO3 3 NaHSO4 4 H2SO4 5 Ice only 6 CH3OH 7 Other (specify in Column D) N Not Preserved
Account Code		Sampler (Name) Amanda K. Bohan		Airbill Number 8336 8601 6840			
Site Name Omega DV-02		Sampler Signature <i>[Signature]</i>		5 Ship To A4 Scientific 1544 Sawdust Rd. Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN Reddy Pakanati			
City State Whittier, CA	Site Spill ID	Op Unit		3 Purpose** Lead: <input type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED, <input type="checkbox"/> BZ Early Action: <input type="checkbox"/> IA, <input type="checkbox"/> PA, <input checked="" type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI Long-Term Action: <input type="checkbox"/> RIFS, <input type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
					VOA	BNA	Pest/PCB						
Y06N2	2	L	G	5		X	X	6W202-MW03A-0042	5-21-02/310	M40K86/5	AC		
<i>all</i>													

Shipment for Case Complete? (Y/N) (N)	Page 1 of 1	VOA MS/MSD Required? (N)	Y/N	Sample # N/A	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? (N)		Sample # <i>See other codes</i>		
		Pest/PCB MS/MSD Required? (N)		Sample # <i>See other codes</i>		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) <i>Bill Clarke</i>	Date / Time 5-21-02 1730	Received by (Signature) <i>Federal Express</i>	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Distribution Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions

**See Reverse for Purpose Code Definitions

CLASS 99-001



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No
30499

1 Project Code		2 Region No 9		3 Sampling Cp Weston		4 Date Shipped 5-21-02		Carrier Fed Ex		6 Matrix (Enter in Column A)		7 Preservative (Enter in Column D)																						
Account Code		Sampler (Name) Amanda K. Cohen				Airbill Number 8336 8601 6862				1 Surface Water		1 HCl																						
Site Name Omega DV-02		Sampler Signature <i>A.K.C.</i>				5 Ship To At Scientific 1544 Sawdust Rd, Suite 505 The Woodlands, TX 77380 (281) 292-5277				3 Leachate		2 HNO3																						
City, State Whittier, CA		Site Spill ID		Op Unit		3 Purpose**				4 Field QC		3 NaHSO4																						
						<table border="0"> <tr> <td>Lead</td> <td>Early Action</td> <td>Long-Term Action</td> </tr> <tr> <td><input type="checkbox"/> ISF</td> <td><input type="checkbox"/> IA</td> <td><input type="checkbox"/> RIFS</td> </tr> <tr> <td><input type="checkbox"/> PRP</td> <td><input type="checkbox"/> PA</td> <td><input type="checkbox"/> RD</td> </tr> <tr> <td><input type="checkbox"/> ST</td> <td><input type="checkbox"/> REM</td> <td><input type="checkbox"/> RA</td> </tr> <tr> <td><input type="checkbox"/> FED</td> <td><input type="checkbox"/> RI</td> <td><input type="checkbox"/> O&M</td> </tr> <tr> <td><input type="checkbox"/> BZ</td> <td><input type="checkbox"/> SI</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> ESI</td> <td></td> </tr> </table>				Lead	Early Action	Long-Term Action	<input type="checkbox"/> ISF	<input type="checkbox"/> IA	<input type="checkbox"/> RIFS	<input type="checkbox"/> PRP	<input type="checkbox"/> PA	<input type="checkbox"/> RD	<input type="checkbox"/> ST	<input type="checkbox"/> REM	<input type="checkbox"/> RA	<input type="checkbox"/> FED	<input type="checkbox"/> RI	<input type="checkbox"/> O&M	<input type="checkbox"/> BZ	<input type="checkbox"/> SI			<input type="checkbox"/> ESI		5 Soil/Sediment		4 H2SO4	
Lead	Early Action	Long-Term Action																																
<input type="checkbox"/> ISF	<input type="checkbox"/> IA	<input type="checkbox"/> RIFS																																
<input type="checkbox"/> PRP	<input type="checkbox"/> PA	<input type="checkbox"/> RD																																
<input type="checkbox"/> ST	<input type="checkbox"/> REM	<input type="checkbox"/> RA																																
<input type="checkbox"/> FED	<input type="checkbox"/> RI	<input type="checkbox"/> O&M																																
<input type="checkbox"/> BZ	<input type="checkbox"/> SI																																	
	<input type="checkbox"/> ESI																																	
						ATTN Reddy Pakanati				5 Ice only		7 Other (specify in Column D)																						
										6 PE-water		6 CH3OH																						
										7 PE-soil		N Not Preserved																						
										8 Other (specify in Column A)																								

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
YOGN0	2	M	G	1	X			GW202-MW07A-004	5-21-02/1030	M4OK84/3	AC	---	
YOGN2	↓	L	↓	↓	X			GW202-MW03A-0042	5-21-02/1310	M4OK86/5	AC	---	
YOGN1	↓	L	↓	↓	X			GW202-MW07A-201	5-21-02/1005	N/A	BC	B-T	
YOGN3	↓	M*	↓	↓	X			GW202-MW04A-0047	5-21-02/1530	M4OK88/7	AC	---	
all													

Shipment for Case Complete? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Page 1 of 1	VOA MS/MSD Required? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sample # YOGN2	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input type="checkbox"/> Y <input type="checkbox"/> N Sample # N/A		
		Pest/PCB MS/MSD Required? <input type="checkbox"/> Y <input type="checkbox"/> N Sample # N/A		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs. *** ~ 250 ug/L PCE - Dilute as necessary**

Chain of Custody Record

Relinquished by (Signature) <i>Bill Clarke</i>	Date / Time 5-21-02 1730	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Distribution Blue - Region Copy White - Lab Copy for Return to SMO Pink - SMO Copy Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Inorganic Traffic Report
& Chain of Custody Record**
(For Inorganic CLP Analysis)

Case No

30499

1 Project Code	Account Code	2 Region No 9	Sampling Co Weston	4 Date Shipped 5-21-02	Carrier Fed EX	6 Matrix (Enter in Column A) 1 Surface Water 2 Ground Water 3 Leachate 4 Field QC 5 Soil/Sediment 6 Oil (High only) 7 Waste (High only) 8 Other (specify in Column A)	7 Preservative (Enter in Column D) 1 HCl 2 HNO3 3 NaOH 4 H2SO4 5 K2CR2O7 6 Ice only 7 Other (specify in Column D) N Not preserved
Regional Information		3 Sampler (Name) Amanda K. Cohan		Airbill Number			
Non-Superfund Program		3 Sampler Signature <i>[Signature]</i>		5 Ship To Sentinel Inc (SENTIN) 116 Washington St., NE Huntsville, AL 35801 (256) 534-9800 ATTN Karen Mitchell			
Site Name Omega DU		3 Purpose* Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input checked="" type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI Long Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD					
City, State Whittier, CA	Site Spill ID						

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med High	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No	J Sampler Initials	K Field QC Qualifier <small>B = Blank S = Spike D = Duplicate R = Rinse PE = Perform Eval - = Not a QC Sample</small>
					Diss Metals	Total Metals	Cyanide	NO2/NO3	Fluoride	pH	Conduct						
MYOK83	2	L	G	2/3	XX								GW202-MW07A-0041	5-21-02/1030	Y06N0	AC	—
MYOK84					X								" " "	" "	" "	AC	—
MYOK85					XX								GW202-MW03A-0042	5-21-02/1310	Y06N2	AC	—
MYOK86					X								" "	" "	" "	AC	—
MYOK87					XX								GW202-MW04A-0047	5-21-02/1570	Y06N3	AC	—
MYOK88					X								" "	" "	" "	AC	—
all																	

Shipment for Case Complete? (Y/N) Y	Page 1 of 1	Sample(s) to be Used for Laboratory QC MYOK85/MYOK86	Additional Sampler Signatures Bill Clarke	Chain of Custody Seal Number(s)
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CHAIN OF CUSTODY RECORD

Relinquished by (Signature) Bill Clarke	Date / Time 5-21-02 17 30	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

DISTRIBUTION

Green - Region Copy
White - Lab Copy for Return to Region

Pink - CLASS Copy
Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

(2/98)

384137

A21 012 13 REV

CHAIN OF CUSTODY RECORD

PROJ NO		PROJECT NAME				NO OF CONTAINERS	REMARKS				
RO2546		Omega Chemical OU-02									
SAMPLERS (Signature)						Perchlorate					
STA NO	DATE	TIME	COMP	GRAB	STATION LOCATION						
	5-21-02	1030		X	GW202-MW07A-0041	1	X				
		1310			GW202-MW03A-0042	2	X				LCS
		1530		X	GW202-MW04A-0047	1	X				
all											

Relinquished by (Signature) <i>Bill Clarke</i>	Date / Time 5-21-02 1800	Received by (Signature) <i>Federal Express</i>	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No

30499

1 Project Code		2 Region No 9		Sampling Co Weston		4 Date Shipped 5-21-02		Carrier Fed EX		6 Matrix (Enter in Column A)		7 Preservative (Enter in Column D)			
Account Code		Sampler (Name) Amanda K. Cohan				Airbill Number 8336 8601 6873				1 Surface Water		1 HCl			
Site Name Omega DV		Sampler Signature <i>[Signature]</i>				5 Ship To A4 Scientific 1544 Sawdust Rd, Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN Reddy Pakanati				2 Ground Water		2 HNO3			
City, State Whittier, CA		Site Spill ID		Op Unit		3 Purpose**		Early Action		Long-Term Action		3 Leachate		3 NaHSO4	
						Lead		IA		RIFS		4 Field QC		4 H2SO4	
						PRP		PA		RD		5 Soil/Sediment		5 Ice only	
						ST		REM		RA		6 PE-water		6 CH3OH	
						FED		RI		O&M		7 PE-soil		7 Other (specify in Column D)	
						BZ		ESI				8 Other (specify in Column A)		N Not Preserved	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp/Grab	D Preservative (from Box 7) Other	E RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one)		TA (circle one)		TA (circle one)							
					PR* 7	14	21	PR* 7	14	21						
Y09N3	Z	L	G	5					X	X	GW202-MW04A-0047	5-21-02/1530	M40KB 8/7	AC		
<i>all</i>																

Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/>	Page 1 of 1	VOA MS/MSD Required? Y/N <input checked="" type="checkbox"/>	Sample # N/A	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N <input checked="" type="checkbox"/>	Sample #		
		Pest/PCB MS/MSD Required? Y/N <input checked="" type="checkbox"/>	Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) <i>Bill Clarke</i>	Date / Time 5/21/02 1730	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

Distribution Blue Region Copy
White - Lab Copy for Return to SMO
Pink SMO Copy
Yellow Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

401811

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United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.
30499

1. Project Code		2. Region No. 9	3. Sampling Co. Weston	4. Date Shipped 5-22-02	Carrier Fed Ex	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N Not Preserved
Account Code		Sampler (Name) Amanda K. Cohen		Airbill Number 8336 8601 6900			
Site Name Omega OV-02		Sampler Signature <i>[Signature]</i>		5. Ship To: A4 Scientific 1544 Sawdust Rd., Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN: Reddy Pakanati			
City, State Whittier CA	Site Spill ID	Op Unit	3. Purpose** Lead <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ <input type="checkbox"/> Early Action IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI <input type="checkbox"/> Long-Term Action RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/>				

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
Y06N7	2	L	G	S			X	X	6W202-MW04C-0094	5-22-02/125	MYOK93/4	AC	
<i>all</i>													

Shipment for Case Complete? (Y/N)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample #: N/A	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #:		
		Pest/PCB MS/MSD Required? Y/N	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <i>Bill Clarke</i>	Date / Time 5/22/02 1730	Received by: (Signature) <i>Federal Express</i>	Relinquished by: (Signature)	Date / Time	Received by (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

401808



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. <u>9</u> Sampling Co. <u>Weston</u>	4. Date Shipped <u>5-22-02</u> Carrier <u>Fed Ex</u>	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		Sampler (Name) <u>Amanda K. Cohan</u>	Airbill Number <u>8336 8601 6910</u>		
Site Name <u>Omega DU</u>		Sampler Signature <u>[Signature]</u>	5. Ship To: <u>#4 Scientific</u> <u>1544 Sawdust Rd, Suite 505</u> <u>The Woodlands, TX 77380</u> <u>(281) 292-5277</u> ATTN: <u>Reddy Pakanati</u>		
City, State <u>Whittier, CA</u>	Site Spill ID	Op Unit			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
Y06N4	2	L	G	1	X			GW202-MW04B-2002	5-22-02/1100	-None-	BC	B-T	
Y06N5	1	M	1	1	X			GW202-MW04B-1075	5-22-02/0855	MYOK 89/90	AC	D	
Y06N6	1	M	1	1	X			GW202-MW04B-0075	5-22-02/0900	MYOK 91/2	AC	---	
Y06N7	1	L-M	1	1	X			GW202-MW04C-0094	5-22-02/1125	MYOK 93/4	AC	---	
Y06N8	1	L-M	1	1	X			GW202-MW11A-0045	5-22-02/1410	MYOK 95/6	AC	---	
<u>all</u>													

Shipment for Case Complete? <u>(Y/N)</u>	Page <u>1</u> of <u>1</u>	VOA MS/MSD Required? <u>Y/N</u> Sample #: <u>N/A</u>	Additional Sampler Signatures <u>Bill Clarke</u>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <u>Y/N</u> Sample #: <u>N/A</u>		
		Pest/PCB MS/MSD Required? <u>Y/N</u> Sample #: <u>N/A</u>		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <u>Bill Clarke</u>	Date / Time <u>5-22-02 1730</u>	Received by: (Signature) <u>Federal Express</u>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

12



United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

Case No. **30499**

1. Project Code	Account Code	2. Region No. 9	Sampling Co. Neston	4. Date Shipped 5-22-02	Carrier Fed EX	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved
Regional Information		Sampler (Name) Amanda K. Bohan		Airbill Number 8336 8601 1242			
Non-Superfund Program		Sampler Signature <i>[Signature]</i>		5. Ship To Sentinel Inc (SENTIN) 116 Washington St, NE Huntsville, AL 35801 (256) 534-9800 ATTN: Karen Mitchell			
Site Name Omega OU-02		3. Purpose* Early Action Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED CLEM PA REM RI SI ESI		Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD			
City, State Wentzler, CA		Site Spill ID					

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier B = Blank S = Spike D = Duplicate R = Rinse PE = Perform Eval - = Not a QC Sample
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Fluoride	pH	Conduct.						
MYOKP9	2	L	G	2,3	X	X							GW202-MW04B-1075-BC	5-22-02/0855	Y06N5	AC	D
MYOK90				2	X								GW202-MW04B-1075	5-22-02/0855	Y06N5	AC	D
MYOK91				2,3	X	X							GW202-MW04B-0075	5-22-02/0900	Y06N6	AC	
MYOK92				2	X								GW202-MW04B-0075	5-22-04/0900	Y06N6	AC	
MYOK93				2,3	X	X							GW202-MW04C-0094	5-22-02/1125	Y06N7	AC	
MYOK94				2	X								GW202-MW04C-0094	5-22-02/1125	Y06N7	AC	
MYOK95				2,3	X	X							GW202-MW11A-0045	5-22-02/1410	Y06N8	AC	
MYOK96	✓	✓	✓	2	X								GW202-MW11A-0045	5-22-02/1410	Y06N8	AC	
all																	

Shipment for Case Complete? (Y/N) (Y)	Page 1 of 1	Sample(s) to be Used for Laboratory QC None	Additional Sampler Signatures Bill Clarke	Chain of Custody Seal Number(s)
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CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) Bill Clarke	Date / Time 5-22-02 1730	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

A21-012-13 REV



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Toxic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No
30499

1 Project Code		2 Region No 9		Sampling Co Weston		4 Date Shipped 5-22-02		Carrier Fed Ex		6 Matrix (Enter in Column A)		7 Preservative (Enter in Column D)			
Account Code		Sampler (Name) Amanda K. Cohen				Airbill Number 8336 8601 692				1 Surface Water		1 HCl			
Site Name Omega DV-02		Sampler Signature <i>A.K.C.</i>				5 Ship To AT Scientific 1544 Sawdust Rd. Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN Reddy Pakanati				2 Ground Water		2 HNO3			
City, State Whittier, CA		Site Spill ID		Op Unit		3 Purpose**		Early Action		Long-Term Action		3 Leachate		3 NaHSO4	
						<input type="checkbox"/> Lead <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		<input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		<input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		4 Field QC		4 H2SO4	
										5 Soil/Sediment		5 Ice only		5 Other (specify in Column D)	
										6 PE-water		6 CH3OH		7 Other (specify in Column D)	
										7 PE-soil		7 Other (specify in Column D)		N Not Preserved	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp/Grab	D Preservative (from Box 7) Other	E RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	VOA	BNA	Pest/PCB						
Y05N8	2	L	G	5		X	X			GW202-MW11A-0045	5-22-02/1410	MYOK95/6	AC			
all																

Shipment for Case Complete? (Y/N) (Y)	Page 1 of 1	VOA MS/MSD Required? Y/N (Y)	Sample # N/A	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N (Y)	Sample #		
		Pest/PCB MS/MSD Required? Y/N (Y)	Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) <i>Bill Clarke</i>	Date / Time 5/22/02 1730	Received by (Signature) <i>Federal Express</i>	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No
30494

1 Project Code		2 Region No 9	Sampling Co Weston	4 Date Shipped 5-23-02	Carrier Federal Express	6 Matrix (Enter in Column A) 1 Surface Water 2 Ground Water 3 Leachate 4 Field QC 5 Soil/Sediment 6 PE-water 7 PE-soil 8 Other (specify in Column A)	7 Preservative (Enter in Column D) 1 HCl 2 HNO3 3 NaHSO4 4 H2SO4 5 Ice only 6 CH3OH 7 Other (specify in Column D) N Not Preserved
Account Code		Sampler (Name) Bill Clarke		Airbill Number 8336 8601 6943			
Site Name Omega DU-02		Sampler Signature <i>Bill Clarke</i>		5 Ship To A4 Scient. fic 1544 Sawdust Rd, Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN Reddy Pakanat;			
City, State Whittier, CA	Site Spill ID	Op Unit	3 Purpose**				

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
Y09P2	2	L	G	5		X	X	GW202 MW08A-0040	5-23-02/1115	MYOKA1/2	AC		
<i>all</i>													

Shipment for Case Complete? (Y/N) (N)	Page 1 of 1	VOA MS/MSD Required? Y/N (N) Sample # NA	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N (N) Sample #		
		Pest/PCB MS/MSD Required? Y/N (N) Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) <i>Bill Clarke</i>	Date / Time 5/23/02 1700	Received by (Signature) <i>Federal Express</i>	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

Distribution Blue Region Copy White - Lab Copy for Return to SMO
Pink - SMO Copy Yellow Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

116

1. Project Code	2. Region No. 9 Sampling Co. Weston	4. Date Shipped 5-23-02 Carrier Fed Express	6. Matrix (Enter in Column A)	7. Preservative (Enter in Column D)
Account Code	Sampler (Name) Amanda K. Cohan	Airbill Number 8336 8601 6932	1 Surface Water	1 HCl
Site Name Omega DV-02	Sampler Signature <i>[Signature]</i>	5 Ship To: A4 Scientific 1544 Sawdust Rd, Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN: Reddy Pakanati	2 Ground Water	2 HNO3
City, State Whittier, CA	Site Spill ID	Op Unit	3 Leachate	3 NaHSO4
			4 Field QC	4 H2SO4
			5 Soil/Sediment	5 Ice only
			6 PE-water	6 CH3OH
			7 PE-soil	7 Other (specify in Column A)
			8 Other (specify in Column A)	N Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc. Low Med	C Sample Type Comp./Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06AD	2	L	G	5		X	X	GW2PZ-MW08B-0070		5-23-02/0900	M40K9718	AC	
								<i>all</i>					

Shipment for Case Complete? (Y/N) (Y)	Page 1 of 1	VOA MS/MSD Required? Y/N Sample # NA	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N Sample #:		
		Pest/PCB MS/MSD Required? Y/N Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <i>Bill Clarke</i>	Date / Time 5-23-02 1700	Received by: (Signature) <i>Federal Express</i>	Relinquished by: (Signature)	Date / Time	Received by (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution Blue - Region Copy White - Lab Copy for Return to SMO Pink - SMO Copy Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions **See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No

30499

1 Project Code		2 Region No 9		3 Sampling Co Weston		4 Date Shipped 5-23-02		Carrier Federal Express		6 Matrix (Enter in Column A)		7 Preservative (Enter in Column D)	
Account Code		Sampler (Name) Bill Clarke		Sampler Signature Bill Clarke		Airbill Number 8336 8601 6954		5 Ship To A4 Scient. Inc 1544 Sawdust Rd., Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN Reddy Pakanati		1 Surface Water		1 HCl	
Site Name Omega OU-02		City, State Whittier, CA		Site Spill ID		Op Unit		3 Purpose**		2 Ground Water		2 HNO3	
								Early Action		3 Leachate		3 NaHSO4	
								Long Term Action		4 Field QC		4 H2SO4	
										5 Soil/Sediment		5 Ice only	
										6 PE-water		6 CH3OH	
										7 PE-soil		7 Other (specify in Column D)	
										8 Other (specify in Column A)		N Not Preserved	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one)		TA (circle one)		TA (circle one)							
					PR*	7 14 21	PR*	7 14 21	PR*	7 14 21						
YOGPL	2	L	G	S			X		X		QW202-MW0RC-0087	5-23-02/1005	MYOK99/A0	AC		
											all					

Shipment for Case Complete? (Y/N)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample # NA	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #	Bill Clarke	
		Pest/PCB MS/MSD Required? Y/N	Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) Bill Clarke	Date / Time	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Distribution Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions
CLASS 99-001

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United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No

30499

1 Project Code		2 Region No 9	Sampling Co Weston	4 Date Shipped	Carrier Federal Express	6 Matrix (Enter in Column A) 1 Surface Water 2 Ground Water 3 Leachate 4 Field QC 5 Soil/Sediment 6 PE-water 7 PE-soil 8 Other (specify in Column A)	7 Preservative (Enter in Column D) 1 HCl 2 HNO3 3 NaHSO4 4 H2SO4 5 Ice only 6 CH3OH 7 Other (specify in Column D) N Not Preserved	
Account Code		3 Sampler (Name) Bill Clarke		Airbill Number 8336 8601 6965				
Site Name Omega 0U-02		3 Sampler Signature Bill Clarke		5 Ship To A4 Scientific 1544 Sawdust Rd. Suite 505 The Woodlands, TX 77380 (281)292-5277 ATTN Reddy Pakanati				
City, State Whittier, CA	Site Spill ID	Op Unit	3 Purpose** <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> BEM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		Long Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one)		TA (circle one)		TA (circle one)							
					PR* 7	14	21	PR* 7	14	21						
Y06P3	2	L	G	5			X			X		GW202-MW08D-0116	5-23-02/1330	MYOKA 3/4	AC	
<i>all</i>																

Shipment for Cases Complete? (Y/N)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample # NA	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #		
		Pest/PCB MS/MSD Required? Y/N	Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) Bill Clarke	Date / Time 5/23/02 1700	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Distribution Blue Region Copy White Lab Copy for Return to SMO Pink SMO Copy Yellow Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1 Project Code	2 Region No 9	3 Sampling Co Western	4 Date Shipped 5-23-02	Carrier Federal Express	6 Matrix (Enter in Column A)	7 Preservative (Enter in Column D)
Account Code	Sampler (Name) Bill Clarke		Airbill Number 8336 8601 6976		1 Surface Water	1 HCl
Site Name Omega OU-02	Sampler Signature Bill Clarke		5 Ship To A4 Scientific 1544 Sawdust Rd. Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN Reddy Pakanati		2 Ground Water	2 HNO3
City, State Whittier, CA	Site Spill ID	Op Unit	3 Purpose**		3 Leachate	3 NaHSO4
			<input checked="" type="checkbox"/> Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		4 Field QC	4 H2SO4
			<input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> EST		5 Soil/Sediment	5 Ice only
			<input type="checkbox"/> Long Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		6 PE-water	6 CH3OH
					7 PE-soil	7 Other (specify in Column D)
					8 Other (specify in Column A)	N Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp/Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
YOGP2	2	H	G	1	X			GW202-MW08A-0040	5-23-02/1165	MYOKA1/2	AC		
YOGP0	1	M-H	1	1	X			GW202-MW08B-0070	5-23-02/0900	MYOKA97/8	AC		
YOGP1	1	M	1	1	X			GW202-MW08C-0087	5-23-02/1005	MYOKA99/A0	AC		
YOGP3	1	H	1	1	X			GW202-MW08D-0116	5-23-02/1330	MYOKA3/4	AC		
YOGN9	1	L	1	1	X			GW202-MW08A-2003	5-23-02/0905	None	AC		
all													

Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/>	Page 1 of 1	VOA MS/MSD Required? <input checked="" type="checkbox"/> Sample #	Additional Sampler Signatures Bill Clarke	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input type="checkbox"/> Sample # N/A		
		Pest/PCB MS/MSD Required? <input type="checkbox"/> Sample # N/A		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.
 Chain of Custody Record (2) ~ 500 with VCE -> p. late as necessary
 (2) > 1,000 with Acetone -> d. late as necessary

Relinquished by (Signature) Bill Clarke	Date / Time 5-23-02 1700	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

(20)



United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

Case No.

30499

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved
Regional Information		3. Sampler (Name) Amanda K. Cohan		Airbill Number 8336 8601 1253			
Non-Superfund Program		3. Sampler Signature <i>[Signature]</i>		5. Ship To Sentinel Inc. (SENTIN) 116 Washington St., NE Huntsville, AL 35801 (256) 534-9800 ATTN: Karen Mitchell			
Site Name Omega DV-02		3. Purpose*		Site Spill ID			
City, State Whittier, CA		<input type="checkbox"/> LEAD <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED		<input type="checkbox"/> EARLY ACTION <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		<input type="checkbox"/> LONG-TERM ACTION <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E - RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform Eval - = Not a QC Sample
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Fluoride	pH						
MYOKA1	2	L	G	2,3	X	X					GW202-MW08A-0070	5-23-02/1115	Y06P2	AC	---	
MYOKA2				2	X						"	"	"	AC	---	
MYOK97				2,3	X	X					GW202-MW08B-0070	5-23-02/0900	Y06P0	AC	---	
MYOK98				2	X						"	"	"	AC	---	
MYOK99				2,3	X	X					GW202-MW08C-0087	5-23-02/1005	Y06P1	AC	---	
MYOKA0				2	X						"	"	"	AC	---	
MYOKA3				2,3	X	X					GW202-MW08D-0116	5-23-02/1330	Y06P3	AC	---	
MYOKA4	↓	↓	↓	2	X						"	"	"	AC	---	
all																

Shipment for Case Complete? (Y/N)	Page of	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	1 of 1	N/A	Bill Clarke	

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) Bill Clarke	Date / Time 5-23-02 1700	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

DISTRIBUTION:

Green - Region Copy

White - Lab Copy for Return to Region

Pink - CLASS Copy

Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-13 REV



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No. **30499**

1. Project Code		2. Region No. 9 Sampling Co. Wcston		4. Date Shipped 5-24-02 Carrier Fed Ex		6. Matrix (Enter in Column A)		7. Preservative (Enter in Column D)	
Account Code		3. Sampler (Name) Amanda K. Cohan		Airbill Number 8336 8601 6998		1. Surface Water		1. HCl	
Site Name Omega OU		Sampler Signature AK Cohan		5. Ship To: A4 Scientific		2. Ground Water		2. HNO3	
City, State Whittier, CA		Site Spill ID		Op Unit		3. Leachate		3. NaHSO4	
		3. Purpose**		Early Action		4. Field QC		4. H2SO4	
		Lead		IA		5. Soil/Sediment		5. Ice only	
		PRP		PA		6. PE-water		6. CH3OH	
		ST		REM		7. PE-soil		7. Other (specify in Column D)	
		FED		SI		8. Other (specify in Column A)		N. Not Preserved	
		BZ		ESI					
				Long-Term Action					
				RIFS					
				RD					
				RA					
				O&M					
						ATTN: Reddy Pakanati			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
					VOA	BNA	Pest/PCB						
Y06P6	2	L	G	5		X	X	GW202-MWD98-0154	5-24-02/1000	MYOKA7/8	676		
								all					

Shipment for Case Complete? <input checked="" type="checkbox"/>	Page 1 of 1	VOA MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #: NA	Additional Sampler Signatures Bill Clarke	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #:		
		Pest/PCB MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Bill Clarke	Date / Time 5-24-02 1600	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy Pink - SMO Copy
White - Lab Copy for Return to SMO Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. 9	3. Sampling Co. Weston	4. Date Shipped 5-24-02	Carrier Fed Ex	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		Sampler (Name) Amanda K. Cohan		Airbill Number 8336 8601 7001			
Site Name Omega OU-02		Sampler Signature <i>A.K.C.</i>		5. Ship To: A4 Scientific 1544 Sandust Rd., Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN: Reddy Pakanati			
City, State Whittier, CA	Site Spill ID	Op Unit		3. Purpose**			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06P7	2	L	G	5		X	X	0W202-MW06-0042	5-24-02/1130	MYOKA9/BA	Grz		
<i>all</i>													

Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/>	Page 1 of 1	VOA MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #: NA	Additional Sampler Signatures <i>Bill Clarke</i>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #:		
		Pest/PCB MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <i>Bill Clarke</i>	Date / Time 5-24-02 1600	Received by: (Signature) <i>Federal Express</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

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United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. 9	Sampling Co. Weston	4. Date Shipped 5-24-02	Carrier Federal Express	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		Sampler (Name) Bill Clarke		Airbill Number 8336 8601 7012			
Site Name Omega OU-02		Sampler Signature <i>Bill Clarke</i>		5. Ship To: A4 Scientific 1544 Sandhurst Rd., Ste 505 The Woodlands, TX 77380 (281) 292-5277 ATTN: Reddy Pakanati			
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose**				

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
YOGP8	2	L	G	5		X	X	GW 202-MUNIA-0057		5-24-02/1350	M40KB1/2	BC	
<i>all</i>													

Shipment for Case Complete? <input checked="" type="checkbox"/>	Page 1 of 1	VOA MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #: MA	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #:		
		Pest/PCB MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <i>Bill Clarke</i>	Date / Time 5-24-02 1600	Received by: (Signature) <i>Federal Express</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

405239



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code	2. Region No. 9	3. Sampling Co. Weston	4. Date Shipped 5-24-02	Carrier Fed Ex	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code	Sampler (Name) Amanda K. Cohan		Airbill Number 8336 8601 7023			
Site Name Omega DU	Sampler Signature <i>A.K.C.</i>		5. Ship To: A4 Scientific 1544 Sawdust Rd, Suite 505 The Woodlands, TX 77380 (281) 292-5277 ATTN: Reddy Pakanati			
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose** Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI Long-Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06P4	2	L	G	#1	X			GW202-MW09A-2004	5-24-02/0855	- none -	BC	B-T	
Y06P5	1	M-H			X			GW202-MW09A-0032	5-24-02/0835	MYOKA5/6	BC		
Y06P6	1	M			X			GW202-MW09B-0054	5-24-02/1000	MYOKA7/8	BC		
Y06P7	1	H			X			GW202-MW06A-0042	5-24-02/1130	MYOKA9/B	BC		
Y06P8	1	L-M			X			GW202-MW10A-0057	5-24-02/1350	MYOKB1/2	BC		
all													

Shipment for Case Complete? (Y/N) Y	Page 1 of 1	VOA MS/MSD Required? Y	Sample #: 21	Additional Sampler Signatures ① PCEN 200 ug/L - dilute as necessary ② PCE - 500 ug/L - dilute as necessary	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #: N/A		
		Pest/PCB MS/MSD Required? Y/N	Sample #: N/A		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Bill Garber	Date / Time 5-24-02 1600	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Inorganic Traffic Report
& Chain of Custody Record**
(For Inorganic CLP Analysis)

Case No.

30499

1. Project Code	Account Code	2. Region No.	3. Sampling Co.	4. Date Shipped	Carrier	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved
Regional Information		Sampler (Name)	Airbill Number				
Non-Superfund Program		Sampler Signature	5. Ship To				
Site Name		3. Purpose*		Lead			

CLP Sample Numbers (from labels)	A Matrix (from Box 6)	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7)	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier	
					Other	Diss. Metals	Total Metals	Cyanide	Low only		High only							
									NO2/NO3	Fluoride	pH							Conduct.
MYOKA5	2	L	G	2,3	X	X							GW202-MW09A-0032	5-24-02/0925	Y06P5	GT	---	
MYOKA6				2	X	X							"	"	"	GT	---	
MYOKA7				2,3	X	X							GW202-MW09B-0054	5-24-02/1000	Y06P6	GT	---	
MYOKA8				2	X	X							"	"	"	GT	---	
MYOKA9				2,3	X	X							GW202-MW06A-0042	5-24-02/1130	Y06P7	GT	---	
MYOKB0				2	X	X							"	"	"	GT	---	
MYOKB1				2,3	X	X							GW202-MW10A-0057	5-24-02/1350	Y06P8	GT	---	
MYOKB2	↓	↓	↓	2	X	X							"	"	"	GT	---	
all																		

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	1 of 1	None	Bill Clarke	

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bill Clarke	5-24-02 1600	Federal Express			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

DISTRIBUTION:

Green - Region Copy
White - Lab Copy for Return to Region

Pink - CLASS Copy
Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

CHAIN OF CUSTODY RECORD

PROJ NO. **R02S46** PROJECT NAME **Omega Chemical OU-02**

SAMPLERS (Signature) **Bill Clark**

STA NO	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
	5-24-02	0835		X	GW202-MW09A-0032	1	Perchlorate
		1000		X	GW202-MW09B-0054	1	
		1130		X	GW202-MW06A-0042	1	
		1350		X	GW202-MW10A-0057	1	
all							

Relinquished by: (Signature) Bill Clark	Date / Time 5-24-02 1600	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution Original Accompanies Shipment; Copy to Coordinator Field Files

(28)



United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. 9	3. Sampling Co. Wetton	4. Date Shipped 5-28-02	Carrier Federal Express	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		Sampler (Name) Bill Clarke		Airbill Number 8330 8236 2066			
Site Name Omega Chemical		Sampler Signature Bill Clarke		5. Ship To: Clayton Environmental 22345 Roethel Dr. Novi, MI 48325 (248) 344-1770 ATTN: Karen Corman			
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose** <input checked="" type="checkbox"/> SF <input type="checkbox"/> RRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input checked="" type="checkbox"/> REM <input type="checkbox"/> SI <input type="checkbox"/> ESI Long-Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M				

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
406P9	2	L	G	1	X			GW202-MW01A-2005	5-28-02/0935	-None-	BC	B-T	
406Q0		MHD			X			GW202-MW01B-0005	5-28-02/0910	MYOKB3/4	AC		
406Q1		MHD			X			GW202-MW01B-0080	5-28-02/1015	MYOKB5/6	AC		
406Q2		MHD			X			GW202-MW01B-1080	5-28-02/1020	MYOKB7/8	AC	D	
406Q3		HQ			X			GW202-MW05A-0049	5-28-02/1305	MYOL36/7	AC		
406Q4		HQ			X			GW202-MW02A-0053	5-28-02/1415	MYOL38/9	AC		
all													

Shipment for Case Complete? <input checked="" type="checkbox"/>	Page 1 of 1	VOA MS/MSD Required? <input checked="" type="checkbox"/>	Sample #: NA	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input type="checkbox"/>	Sample #: NA	① TCE \approx 200 mg/L \rightarrow Dilute as necessary	
		Pest/PCB MS/MSD Required? <input type="checkbox"/>	Sample #: NA	② PCE \approx 1,500 mg/L \rightarrow " " "	
				③ PCE \approx 4,000 mg/L \rightarrow Dilute as necessary	

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Bill Clarke	Date / Time 5-28-02 1630	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution. Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. <u>9</u>	Sampling Co. <u>Weston</u>	4. Date Shipped <u>5-28-02</u>	Carrier <u>Federal Express</u>	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		3. Sampler (Name) <u>Bill Clarke</u>		Airbill Number <u>8330 8236 2055</u>			
Site Name <u>Omega Chemical</u>		Sampler Signature <u>Bill Clarke</u>		5. Ship To: <u>clayton Environmental</u> <u>22345 Roethel Dr.</u> <u>Novi, MI 48375</u> <u>(248) 344-1770</u> ATTN: <u>Karen Coonan</u>			
City, State <u>Whittier, CA</u>	Site Spill ID	Op Unit		3. Purpose**			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
<u>YOGQD</u>	<u>2</u>	<u>L</u>	<u>G</u>	<u>5</u>		<u>X</u>	<u>X</u>	<u>QWZP2-MWPIA-0055</u>	<u>5-28-02/0910</u>	<u>MYOKB3/4</u>	<u>AC</u>		
								<u>all</u>					

Shipment for Case Complete? (Y/N)	Page <u>1</u> of <u>1</u>	VOA MS/MSD Required? Y/N	Sample #: <u>N/A</u>	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #:		
		Pest/PCB MS/MSD Required? Y/N	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <u>Bill Clarke</u>	Date / Time <u>5-28-02 1600</u>	Received by: (Signature) <u>Federal Express</u>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.
30499

1. Project Code		2. Region No. 9 Sampling Co. Western		4. Date Shipped 5-28-02 Carrier Federal Express		6. Matrix (Enter in Column A)		7. Preservative (Enter in Column D)	
Account Code		3. Sampler (Name) Bill Clarke		Airbill Number 8330 8236 2044		1. Surface Water		1. HCl	
Site Name Omega Chemical		Sampler Signature Bill Clarke		5. Ship To: Clayton Environmental		2. Ground Water		2. HNO3	
City, State Whittier, CA		Site Spill ID		Op Unit		3. Leachate		3. NaHSO4	
		3. Purpose**		Early Action		4. Field QC		4. H2SO4	
		<input checked="" type="checkbox"/> Lead		<input type="checkbox"/> IA		5. Soil/Sediment		5. Ice only	
		<input type="checkbox"/> SF		<input type="checkbox"/> PA		6. PE-water		6. CH3OH	
		<input type="checkbox"/> PRP		<input checked="" type="checkbox"/> REM		7. PE-soil		7. Other (specify in Column D)	
		<input type="checkbox"/> ST		<input type="checkbox"/> RI		8. Other (specify in Column A)		N. Not Preserved	
		<input type="checkbox"/> FED		<input type="checkbox"/> SI					
		<input type="checkbox"/> BZ		<input type="checkbox"/> ESI					
				Long-Term Action					
				<input type="checkbox"/> RIFS					
				<input type="checkbox"/> RD					
				<input type="checkbox"/> RA					
				<input type="checkbox"/> O&M					
				ATTN: Karen Coonan					

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
406Q1	2	L	G	5		X	X	RW 202-MWDIB-0080	5-28-02/1015	MYOK B576	AC		
								all					

Shipment for Case Complete? (Y/N)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample #: N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #:		
		Pest/PCB MS/MSD Required? Y/N	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Bill Clarke	Date / Time 5-28-02 1600	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

495248



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. <u>9</u>	Sampling Co. <u>Western</u>	4. Date Shipped <u>5-28-02</u>	Carrier <u>Federal Express</u>	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		Sampler (Name) <u>Bill Clarke</u>		Airbill Number <u>8330 8236 2033</u>			
Site Name <u>Omega Chemical</u>		Sampler Signature <u>Bill Clarke</u>		5. Ship To: <u>Clayton Environmental</u> <u>22345 Roettel Dr.</u> <u>Novi, MI, 48375</u> <u>(248) 344-1770</u> ATTN: <u>KAREN COONAN</u>			
City, State <u>Whittier, CA</u>	Site Spill ID	Op Unit	3. Purpose**				
			<input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ	<input type="checkbox"/> IA <input type="checkbox"/> PA <input checked="" type="checkbox"/> BEM <input type="checkbox"/> RI <input type="checkbox"/> ES1	<input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
<u>Y06Q2</u>	<u>2</u>	<u>L</u>	<u>G</u>	<u>5</u>	<u>VOA</u>	<u>X</u>	<u>X</u>	<u>GW202-MW01B-1080</u>		<u>5/28-02/1020</u>	<u>MYOKB718</u>	<u>AC</u>	<u>D</u>
<u>all</u>													

Shipment for Case Complete? (Y/N)	Page <u>1</u> of <u>1</u>	VOA MS/MSD Required? <u>Y/N</u> Sample #: <u>N/A</u>	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <u>Y/N</u> Sample #:		
		Pest/PCB MS/MSD Required? <u>Y/N</u> Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <u>Bill Clarke</u>	Date / Time <u>5/28-02 1600</u>	Received by: (Signature) <u>Federal Express</u>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No

30499

1. Project Code		2. Region No. 9	3. Sampling Co. Western	4. Date Shipped 5-28-02	Carrier Federal Express	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N Not Preserved
Account Code		Sampler (Name) Bill Clarke		Airbill Number P330 8236 2022			
Site Name Omega Chemical		Sampler Signature Bill Clarke		5. Ship To: Clayton Environmental 22345 Roethel Dr. Novi, MI 48375 (248) 344-1770 ATTN: Karen Connor			
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose**				

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06Q3	2	L	G	5	VOA	BNA	Pest/PCB	AW202 MW05A-D049	5-28-02/1305	MYDL367	AC		
<i>all</i>													

Shipment for Case Complete? (Y/N)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample #: N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #: N/A		
		Pest/PCB MS/MSD Required? Y/N	Sample #: N/A		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Bill Clarke	Date / Time 5-28-02 1600	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

405245



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. <u>9</u> Sampling Co. <u>Weston</u>		4. Date Shipped <u>5-28-02</u> Carrier <u>Federal Express</u>		6. Matrix (Enter in Column A)		7. Preservative (Enter in Column D)	
Account Code		3. Sampler (Name) <u>Bill Clarke</u>		Airbill Number <u>8330 8236 2011</u>		1. Surface Water		1. HCl	
Site Name <u>Omega Chemical</u>		3. Sampler Signature <u>Bill Clarke</u>		5. Ship To: <u>Clayton Environmental</u>		2. Ground Water		2. HNO3	
City, State <u>Whittier, CA</u>		3. Purpose**		22345 Roethel Dr		3. Leachate		3. NaHSO4	
Site Spill ID		Op Unit		<u>Novi, MI 48325</u>		4. Field QC		4. H2SO4	
		<input checked="" type="checkbox"/> Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		<input type="checkbox"/> IA <input type="checkbox"/> PA <input checked="" type="checkbox"/> BEM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		<input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		5. Ice only	
				<u>(248) 344-1770</u>		6. PE-water		6. CH3OH	
				ATTN: <u>Karen Coonan</u>		7. PE-soil		7. Other (specify in Column D)	
						8. Other (specify in Column A)		N. Not Preserved	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06Q4	Z	L	G	5		X	X	GW202-MW02A-0053	5-28-02/1415	MY0L38/9	AC		

Shipment for Case Complete? (Y/N)	Page of <u>1</u>	VOA MS/MSD Required? Y/N Sample #: <u>N/A</u>	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N Sample #:		
		Pest/PCB MS/MSD Required? Y/N Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <u>Bill Clarke</u>	Date / Time <u>5-28-02 1600</u>	Received by: (Signature) <u>Federal Express</u>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

34



United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

Case No.

30499

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		9	Weston	5-28-02	Fed Ex
Regional Information		Sampler (Name)		Airbill Number	
		Amanda K. Cohan		8601 1275 8336 8615 5130 Acc	
Non-Superfund Program		Sampler Signature		5. Ship To	
		<i>[Signature]</i>		Sentinel Inc. (SENTN) 116 Washington St. NE Huntsville, AL 35801 (256) 534-9800 ATTN: Karen Mitchell	
Site Name		3. Purpose*			
Omega DU		<input type="checkbox"/> Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		<input type="checkbox"/> Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD	
City, State	Site Spill ID				
Whittier, CA					

6. Matrix (Enter in Column A)	7. Preservative (Enter in Column D)
1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier	
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Low only	Fluoride	pH							High only
MYOKB3	Z	L	G	2,3	X	X							GW202-MW01A-0055		5-28-02/0910	Y06Q0	6Z	
MYOKB4	Z	L	G	2	X								"		"	"	6Z	
MYOKB5	Z	L	G	2,3	X	X							GW202-MW01B-0080		5-28-02/1015	Y06Q1	6Z	
MYOKB6	Z	L	G	2	X								"		"	"	6Z	
MYOKB7	Z	L	G	2,3	X	X							GW202-MW01B-1080		5-28-02/1020	Y06Q2	6Z	
MYOKB8	Z	L	G	2	X								"		"	"	6Z	
MYOL36	Z	L	G	2,3	X	X							GW202-MW05A-0049		5-28-02/1305	Y06Q3	6Z	
MYOL37	Z	L	G	2	X								"		"	"	6Z	
MYOL38	Z	L	G	2,3	X	X							GW202-MW02A-0055		5-28-02/1415	Y06Q4	6Z	
MYOL39	Z	L	G	2	X								"		"	"	6Z	

hold on be y y OK B7 wif looks like B9.

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	1 of 1	None	<i>[Signature]</i>	

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
<i>[Signature]</i>	5-28-02 1600	Federal Express			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

A21-012 13 REV

CHAIN OF CUSTODY RECORD

PROJ NO. R02546 PROJECT NAME Omega Chemical OU-02

SAMPLERS (Signature) Bill Clarke

NO. OF CONTAINERS
 Perchlorate
 REMARKS
 Fed Ex Airbill
 8336 8615 5130

STA NO	DATE	TIME	COMP	GRAB	STATION LOCATION													
	5-28-02	0910	X		GW202-MW01A-0055	1	X											
	5-28-02	1015	X		GW202-MW01B-0080	↓	X											
	5-28-02	1020	X		GW202-MW01B-1080	↓	X											
	5-28-02	1305	X		GW202-MW05A-0049	↓	X											
	5-28-02	1415	X		GW202-MW02A-0055	↓	X											
all																		

Relinquished by (Signature) Bill Clarke	Date / Time 5-28-02 1630	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution Original Accompanies Shipment, Copy to Coordinator Field Files



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No

30499

1 Project Code		2 Region No 9	3 Sampling Co. Weston	4 Date Shipped	Carrier Federal Express	6 Matrix (Enter in Column A)	7 Preservative (Enter in Column D)
Account Code		Sampler (Name) Bill Clarke		Airbill Number 8330-8236-2000		1 Surface Water	1 HCl
Site Name Omega Chemical		Sampler Signature Bill Clarke		5 Ship To Clayton Environmental 22345 Roethel Dr. Novi MI, 48375 (248) 344-1770 ATTN Karen Coonan		2 Ground Water	2 HNO3
City, State Whittier, CA		3 Purpose**				3 Leachate	3 NaHSO4
Site Spill ID		Op Unit				4 Field QC	4 H2SO4
		Early Action				5 Soil/Sediment	5 Ice only
		Long-Term Action				6 PE-water	6 CH3OH
						7 PE-soil	7 Other (specify in Column D)
						8 Other (specify in Column A)	N Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis						F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one)		TA (circle one)		TA (circle one)							
					PR*	7 14 21	PR*	7 14 21	PR*	7 14 21						
Y06Q6	2	L	G	1	X					GW202-0W07-2000	5-21-02/0820	-None-	AKC	B-T		
Y06Q5	2	L	G	1, N	X	X	X			GW202-0W07-0081	5-29-02/0830	MY0L40/1	6Z	-		
Y06Q8	2	L	G	1	X					GW202-0W13-0116	5-21-02/1230	MY0L44/5	6Z	-		
Y06Q7	2	H0	G	1	X					GW202-0W1A-0080	5-29-02/1145	MY0L42/3	6Z	-		
Y06Q9	2	H0	G	1	X					GW202-0WZ-0076	5-21-02/	MY0L46/7	6Z	-		
all																

Shipment for Case Complete? (Y/N)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample #	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)		BNA MS/MSD Required? Y/N	Sample #	① PCE > 30,000 ug/L → Dilute as necessary	
		Pest/PCB MS/MSD Required? Y/N	Sample #	② PCE > 600 ug/L → Dilute as necessary	AKC

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) AKC	Date / Time 5-21-02 1600	Received by (Signature) Bill Clarke	Relinquished by (Signature) Federal Express	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

Distribution Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions

**See Reverse for Purpose Code Definitions

CLASS-99-001

405243



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No

30499

1 Project Code		2 Region No 9		3 Sampling Co Western		4 Date Shipped		Carrier Federal Express		6 Matrix (Enter in Column A)		7 Preservative (Enter in Column D)	
Account Code		Sampler (Name) Bill Clarke		Sampler Signature Bill Clarke		Airbill Number 833082361997		5 Ship To Clayton Environmental 22345 Roethel Dr. Novi, MI 48375 (248) 344-1770 ATTN: Karen Cannon		1 Surface Water		1 HCl	
Site Name Omega Chemical		City, State Whittier, CA		Site Spill ID		Op Unit		3 Purpose**		4 H2SO4		2 HNO3	
								<input checked="" type="checkbox"/> ISF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		<input type="checkbox"/> IA <input type="checkbox"/> PA <input checked="" type="checkbox"/> DEM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		<input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y0608	2	L	G	5		X	X	LW202-0W13-0116		5-29-02/1230	MY0244/5	L77	
all													

Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/>	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample # N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #		
		Pest/PCB MS/MSD Required? Y/N	Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) <i>Sh KCA</i>	Date / Time 5-29-02 1600	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

Distribution Blue Region Copy
White Lab Copy for Return to SMO
Pink SMO Copy
Yellow Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

475240

30



United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No
30499

1 Project Code		2 Region No 9		3 Sampling Co Weston		4 Date Shipped		Carrier Fedex Express	
Account Code		Sampler (Name) Bill Clarke		Airbill Number 8330 8236 1986		6 Matrix (Enter in Column A) 1 Surface Water 2 Ground Water 3 Leachate 4 Field QC 5 Soil/Sediment 6 PE-water 7 PE-soil 8 Other (specify in Column A)		7 Preservative (Enter in Column D) 1 HCl 2 HNO3 3 NaHSO4 4 H2SO4 5 Ice only 6 CH3OH 7 Other (specify in Column D) N Not Preserved	
Site Name Omega Chemical		Sampler Signature Bill Clarke		5 Ship To Clayton Environmental 22345 Roethel Dr. Novi, MI 48325 (248) 344-1770 ATTN Karen Connor		3 Purpose**		Early Action	
City, State Whittier, CA		Site Spill ID		Op Unit		<input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		<input type="checkbox"/> IA <input type="checkbox"/> PA <input checked="" type="checkbox"/> BEM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI	
						<input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp/Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB						
Y06Q7	2	L	G	5		X	X	GW202-CWIA-0080	5-29-02/1145	MY0L42/3	6Z		
<i>all</i>													

Shipment for Case Complete? (Y/N) (Y)	Page 1 of 1	VOA MS/MSD Required? Y/N (N) Sample # N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N (N) Sample #		
		Pest/PCB MS/MSD Required? Y/N (N) Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) <i>[Signature]</i>	Date / Time 5-29-02 1600	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

Distribution Blue Region Copy White Lab Copy for Return to SMO Pink - SMO Copy Yellow Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

405210



United States Environmental Protection Agency
Contract Laboratory Program

**Inorganic Traffic Report
& Chain of Custody Record**
(For Inorganic CLP Analysis)

Case No.

30499

1. Project Code	Account Code	2. Region No. 9	Sampling Co. Weston	4. Date Shipped	Carrier Fed Ex
Regional Information		3. Sampler (Name) Amanda K. Cohan		Airbill Number 8336 8601 1286	
Non-Superfund Program		Sampler Signature <i>[Signature]</i>		5. Ship To Sentinel Inc. (SENTW) 116 Washington St, NE Huntsville, AL 35801 (256) 534-9800	
Site Name Omega DU		3. Purpose*		ATTN: Karen Mitchell	
City, State Whittier, CA		Site Spill ID			

6. Matrix (Enter in Column A)
- Surface Water
 - Ground Water
 - Leachate
 - Field QC
 - Soil/Sediment
 - Oil (High only)
 - Waste (High only)
 - Other (specify in Column A)
7. Preservative (Enter in Column D)
- HCl
 - HNO3
 - NaOH
 - H2SO4
 - K2CR2O7
 - Ice only
 - Other (specify in Column D)
 - Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier B = Blank S = Spike D = Duplicate R = Rinse PE = Perform Eval = Not a QC Sample	
					Diss. Metals	Total Metals	Cyanide	Low only		High only								
								NO2/NO3	Fluoride	pH	Conduct.							
MY0140	2	L	G	2,3		XX							GW202-0W07-0081	5-29-02/0830	Y06Q5	GC		
MY0141	2	L	G	2	X								" " "	" "	"	GC		
MY0144	2	L	G	2,3		XX							GW202-0W13-0116	5-29-02/1230	Y06Q8	GC		
MY0145	2	L	G	2	X								" " "	" "	"	GC		
MY0142	2	L	G	2,3		XX							GW202-0W1A-0080	5-29-02/1145	Y06Q7	GC		
MY0143	2	L	G	2	X								" " "	" "	"	GC		
MY0146	2	L	G	2,3	X	XX							GW202-0W2-0078	5-29-02	Y06Q9	GC		
MY0147	2	L	G	2	X								" " "	" "	"	GC		
all																		

ACC
ACC

ACC
ACC

Shipment for Case Complete? (Y/N) Y	Page 1 of 1	Sample(s) to be Used for Laboratory QC None	Additional Sampler Signatures	Chain of Custody Seal Number(s)
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CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 5-29-02 1600	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

384066

A21-012-13 REV

PROJ. NO. 11-BCCO -27.0		PROJECT NAME Omega Chemical OU-02				NO. OF CON- TAINERS	REMARKS
SAMPLERS: (Signature) Amanda K. Cohen <i>A.K.C.</i>							
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		
	5-29-02	0830	X	X	GW202-OW07-0081	2	14-Dioxane Fed Ex Airbill 8336 8601 1780
	5-29-02	1230	X	X	GW202-OW1B-0116	2	
	5-29-02	1145	X	X	GW202-OW1A-0080	2	
<i>AR</i>	5-29-02		X	X	GW202-OW2-0070	2	
<i>all</i>							
Relinquished by: (Signature) <i>A.K.C.</i>		Date / Time 5-29-02 1630		Received by: (Signature) <i>Federal Express</i>		Relinquished by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. <u>9</u> Sampling Co. <u>Weston</u>		4. Date Shipped <u>5/30/02</u> Carrier <u>Federal Express</u>		6. Matrix (Enter in Column A)		7. Preservative (Enter in Column D)			
Account Code		3. Sampler (Name) <u>Bill Clarke</u>		Airbill Number <u>8330-8236 3794</u>		1. Surface Water		1. HCl			
Site Name <u>Omega Chemical</u>		3. Purpose**		5. Ship To: <u>Clayton Environmental</u>		2. Ground Water		2. HNO3			
City, State <u>Whittier, CA</u>		Site Spill ID		Op Unit		3. Leachate		3. NaHSO4			
		Lead <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RL <input checked="" type="checkbox"/> SI <input type="checkbox"/> ESI		Long-Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		4. Field QC		4. H2SO4	
				ATTN: <u>Karen Coonan</u>		5. Soil/Sediment		5. Ice only			
						6. PE-water		6. CH3OH			
						7. PE-soil		7. Other (specify in Column D)			
						8. Other (specify in Column A)		N. Not Preserved			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
Y06Q9	2	L	G	1	X					5-30-02/0815	None	AK	B-T
Y06R0	2	H	G	1	X					5-30-02/0830	MX0L46/7	GZ	
Y06R1	2	H	G	1	X					5-30-02/0945	MX0L48/9	GZ	
Y06R2	2	L	G	1	X					5-30-02/1045	MY0L50/1	GZ	
Y06R3	2	M	G	1	X					5-30-02/1400	MY0L52/3	GZ	
Y06R4	2	L	G	1	X					5-30-02/1410	None	GZ	B-E
all													

Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/>	Page <u>1</u> of <u>1</u>	VOA MS/MSD Required? <input checked="" type="checkbox"/> Y/N	Sample #: <u>Y06R2</u>	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input type="checkbox"/> Y/N	Sample #: <u>N/A</u>	① ≈ 12,000 µg/L PCE ② ≈ 1,000 µg/L PCE ③ ≈ 300 µg/L TCE	Dilute as necessary
		Pest/PCB MS/MSD Required? <input type="checkbox"/> Y/N	Sample #: <u>N/A</u>		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <u>AK</u>	Date / Time <u>5:30 PM 1630</u>	Received by: (Signature) <u>Federal Express</u>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

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United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. 9 Sampling Co. Weston	4. Date Shipped 5-30-02 Carrier Federal Express	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column E) N. Not Preserve
Account Code		Sampler (Name) Bill Clarke	Airbill Number 8341 3569 2862		
Site Name Omega Chemical		Sampler Signature Bill Clarke	5. Ship To: Clayton Environmental 22345 Roethel Dr. Novi MI 48325 (248) 344-1770 ATTN: Karen Coonan		
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose** <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> ESI Long-Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06R0	2	L	G	5	VOA	BNA	Pest/PCB	GW202-0WB-0075		53002/0830	MY0L46/7	6Z	
<i>all</i>													

Shipment for Case Complete? (Y/N) Y	Page 1 of 1	VOA MS/MSD Required? Y/N N/A Sample #:	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N Y Sample #:		
		Pest/PCB MS/MSD Required? Y/N Y Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) JKD	Date / Time 5/30/02 1630	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

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United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

No.

30499

1. Project Code		2. Region No. 9	3. Sampling Co. Western	4. Date Shipped 5/30/02	Carrier Federal Express	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		Sampler (Name) Bill Clarke		Airbill Number 8341 3569 2851			
Site Name Omega Chemical		Sampler Signature Bill Clarke		5. Ship To: Clayton Environmental 22345 Roethel Dr. Novi, MI 48375 (248) 344-1770			
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose** Lead <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ Early Action IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input checked="" type="checkbox"/> ESI <input type="checkbox"/> Long-Term Action RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		ATTN: Karen Coonan		

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06R1	2	L	G	5		X	X	6W202-0W4A-0073	5-30-02/0945	MY0L48/9	62		
								all					

Shipment for Case Complete? (Y/N) Y	Page 1 of 1	VOA MS/MSD Required? Y/N N/A	Sample #: N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N Y	Sample #:		
		Pest/PCB MS/MSD Required? Y/N Y	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) [Signature]	Date / Time 5:30 1630	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

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United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.
30499

1. Project Code		2. Region No. 9 Sampling Co. Weston		4. Date Shipped 5-30-02 Carrier Federal Express		6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)		7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved	
Account Code		3. Sampler (Name) Bill Clarke		Airbill Number 8341 3569 2840					
Site Name Omega Chemical		3. Sampler Signature Bill Clarke		5. Ship To: Clayton Environmental 22345 Roethel Dr. Novi, MI 48375 (248) 344-1770 ATTN: Karen Coonan					
City, State Whittier, CA		Site Spill ID		Op Unit		3. Purpose** <input checked="" type="checkbox"/> Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI	
						Long-Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y06RZ	2	L	G	5		X	X	GW202-OW4B-0125	5-30-02/1045	MY050/1	6Z		
<i>all</i>													

Shipment for Case Complete? (Y/N) Y	1 Page of 1	VOA MS/MSD Required? Y/N Sample #: N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N Sample #: Y06RZ, both in other cooler		
		Pest/PCB MS/MSD Required? Y/N Sample #: Y06RZ		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Sh Kl	Date / Time 5-30-02 1630	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

30499

1. Project Code		2. Region No. <u>9</u> Sampling Co. <u>Weston</u>		4. Date Shipped <u>5-30-02</u> Carrier <u>Federal Express</u>		7. Matrix (Enter in Column A)		7. Preservative (Enter in Column D)	
Account Code		3. Sampler (Name) <u>Bill Clarke</u>		Airbill Number <u>8341 3569 2830</u>		1. Surface Water		1. HCl	
Site Name <u>Omega Chemical</u>		3. Sampler Signature <u>Bill Clarke</u>		5. Ship To: <u>Clayton Environmental</u> <u>22345 Rochel Dr.</u> <u>Novi, MI 48375</u> <u>(248) 344-1770</u>		2. Ground Water		2. HNO3	
City, State <u>Whittier, CA</u>		Site Spill ID		Op Unit		3. Leachate		3. NaHSO4	
		3. Purpose**		Early Action		4. Field QC		4. H2SO4	
		Lead <input type="checkbox"/> Lead <input checked="" type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ <input type="checkbox"/>		IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ES <input type="checkbox"/>		5. Soil/Sediment		5. Ice only	
				Long-Term Action		6. PE-water		6. CH3OH	
				RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/>		7. PE-soil		7. Other (specify in Column D)	
				ATTN: <u>Karen Cochran</u>		8. Other (specify in Column A)		N. Not Preserved	

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
<u>Y06R3</u>	<u>2</u>	<u>L</u>	<u>G</u>	<u>5</u>		<u>X</u>	<u>X</u>	<u>GW202-DW5-0048</u>	<u>5-30-02/1400</u>	<u>MY0652/3</u>	<u>LC</u>	<u>—————</u>	
								<u>all</u>					

Shipment for Case Complete? (Y/N) <u>Y</u>	Page <u>1</u> of <u>1</u>	VOA MS/MSD Required? Y/N <u>N/A</u> Sample #:	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N <u>Y</u> Sample #:		
		Pest/PCB MS/MSD Required? Y/N <u>Y</u> Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <u>Sh KC</u>	Date / Time <u>5-30-02 16:30</u>	Received by: (Signature) <u>Federal Express</u>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS					
R02S46		Omega Chemical Corp.										
SAMPLERS. (Signature)						Perchrate						
Gerardo Zuniga, Horacio Zuniga												
DATE	TIME	MATRIX	CONF	GRAB	SAMPLE IDENTIFICATION							
5-29-02	0830	H2O		X	GW202-0W7-0081	1	X					
5-29-02	1230				GW202-0W13-0116		X					
5-29-02	1145				GW202-0W1A-0080		X					
5-30-02	0830				GW202-0WB-0075		X					
5-30-02	0945				GW202-0W4A-0073		X					
5-30-02	1045				GW202-0W4B-0125		X				1 Field Sample, 1 MS/MSD	
5-30-02	1400		✓	✓	GW202-0W5-0048		X					
all												
Relinquished by (Signature)			Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)	
Gerardo Zuniga			5-30-02 1630		Federal Express							
Relinquished by (Signature)			Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)	
Received for Laboratory by (Signature)			Date / Time		Temp	Seals Intact (Y/N)	Condition / Remarks					

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



United States Environmental Protection Agency
Contract Laboratory Program

**Inorganic Traffic Report
& Chain of Custody Record**
(For Inorganic CLP Analysis)

Case No.

30499

1. Project Code	Account Code	2. Region No. 9	Sampling Co. Weston	4. Date Shipped 5-30-02	Carrier Fed Ex	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2Cr2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved
Regional Information		3. Sampler (Name) Amanda K. Cohan		Airbill Number 8336 8601 1297			
Non-Superfund Program		3. Sampler Signature <i>[Signature]</i>		5. Ship To Sentinel Inc. (SENTIN) 116 Washington St, NE Huntsville AL 35801 (256) 534-9800 ATTN: Karen Mitchell			
Site Name Omega DU		3. Purpose*					
City, State Whittier, CA		Site Spill ID					

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier B = Blank S = Spike D = Duplicate R = Rinse PE = Perform Eval - = Not a QC Sample
					Diss. Metals	Total Metals	Cyanide	Low only		High only							
								NO2/NO3	Fluoride	pH	Conduct.						
MY0L46	Z	L	G	1623	X	X							GW202-OW8-0075	5-30-02/1630	Y06R0	GZ	---
MY0L47				2	X								" " "	" " "	" " "	GZ	---
MY0L48				23	X	X							GW202-OW4A-0073	5-30-02/0945	Y06R1	GZ	---
MY0L49				2	X								" " "	" " "	" " "	GZ	---
MY0L50				23	X	X							GW202-OW4B-0125	5-30-02/1045	Y06R2	GZ	---
MY0L51				2	X								" " "	" " "	" " "	GZ	---
MY0L52				23	X	X							GW202-OW5-0048	5-30-02/1400	Y06R3	GZ	---
MY0L53				2	X								" " "	" " "	" " "	GZ	---
all																	

Shipment for Case Complete? (Y/N) Y	Page 1 of 1	Sample(s) to be Used for Laboratory QC MY0L50 / MY0L51	Additional Sampler Signatures	Chain of Custody Seal Number(s)
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CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 5-30-02 1630	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

DISTRIBUTION:

Green - Region Copy
White - Lab Copy for Return to Region

Pink - CLASS Copy
Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

(2/98)

384065

A21-012 13 REV

CHAIN OF CUSTODY RECORD

PROJ. NO. 1E-BCCO-27.0		PROJECT NAME Omega Chemical Corp				NO. OF CONTAINERS	14-Dioxane	REMARKS Fed Ex Airbill 8336 8601 1779
SAMPLERS: (Signature) Gerardo Zuniga Gerardo Zuniga								
DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION			
5-30-02	0830	H ₂ O	X		GW202-DWB-0075	2	X	
5-30-02	0945				GW202-OW4A-0073	2	X	
5-30-02	1045				GW202-OW4B-0125	4	X	2 Field Sample, 2 MS/MSD
5-30-02	1400	↓			GW202-OW5-0048	2	X	
all								
Relinquished by: (Signature) Gerardo Zuniga		Date / Time 5-30-02 1630	Received by: (Signature) Federal Express		Relinquished by: (Signature)		Date / Time	Received by: (Signature)
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		Relinquished by: (Signature)		Date / Time	Received by: (Signature)
Received for Laboratory by: (Signature)		Date / Time	Temp.	Seals Intact (Y/N)	Condition / Remarks			

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Lab No. **30499**

1. Project Code		2. Region No. 9	Sampling Co. Weston	4. Date Shipped 5/30/02	Carrier Federal Express	6. Matrix (Enter in Column A)	7. Preservative (Enter in Column D)
Account Code		Sampler (Name) Bill Clarke		Airbill Number 8341 3569 2829		1. Surface Water	1. HCl
Site Name Omega Chemical		Sampler Signature Bill Clarke		5. Ship To: Clayton Environmental 22345 Rochel Dr. Novi, MI 48375 (248) 344-1770		2. Ground Water	1. HNO3
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose**	Early Action	Long-Term Action	3. Leachate	3. NaHSO4
			<input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ	<input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI	<input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M	4. Field QC	4. H2SO4
						5. Soil/Sediment	5. Ice only
						6. PE-water	6. CH3OH
						7. PE-soil	7. Other (specify in Column D)
						8. Other (specify in Column A)	N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y0GR2	Z	L	G	S		X	X	6W202-0W4B-0125	5-30-02/1045	MY0L50/1	GT		
								all					

Shipment for Case Complete? (Y/N) (Y)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample #: N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? (Y)	Sample #: Y0GR2 - MS/MSD in this cooler		
		Pest/PCB MS/MSD Required? (Y)	Sample #: Y0GR2 - MS/MSD in this cooler		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) [Signature]	Date / Time 5/30/02 1630	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instruction
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. 9 Sampling Co. Western	4. Date Shipped 5-31-02 Carrier Federal Express	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved
Account Code		3. Sampler (Name) Bill Clarke	Airbill Number 8330 8236 1975		
Site Name Omega Chemical		3. Sampler Signature Bill Clarke	5. Ship To: Clayton Environmental 22345 Roethel Dr. Novi, MI 48375 (248) 344-1770		
City, State Whittier, CA	Site Spill ID	Op Unit	ATTN: Karen Coonan		

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one)	TA (circle one)	TA (circle one)						
					PR* 7 14 21	PR* 7 14 21	PR* 7 14 21						
					VOA	BNA	Pest/PCB						
Y0GR5	2	L	G	1	X			GW202-MW	OW3-2008	5-31-02/0725	—none—	AC	B-T
Y0GR6	1	HO		1.5	X	X	X	GW202-OW3-0080		5-31-02/0845	MY0L54/5	BC	—
Y0GR7		HO		1	X			GW202-OW2-0078		5-31-02/1005	MY0L56/7	BC	—
Y0GR8		L-M		1	X			GW202-OW6-0048		5-31-02/1130	MY0L58/9	BC	—
Y0GR9		L-M		1	X			GW202-OW6-1048		5-31-02/1140	MY0L60/1	BC	D
all													

Shipment for Case Complete? (Y/N) (Y)	Page 1 of 1	VOA MS/MSD Required? (Y) Sample #:	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? (Y) Sample #:	① PCE ~ 1,500 µg/L → Dilute as necessary	
		Pest/PCB MS/MSD Required? (Y) Sample #:	② PCE ~ 600-1,000 µg/L → Dilute as necessary	

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Bill Clarke	Date / Time 5-31-02 1530	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions

**See Reverse for Purpose Code Definitions



**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.

30499

1. Project Code		2. Region No. <u>9</u> Sampling Co. <u>Weston</u>	4. Date Shipped <u>5-31-02</u> Carrier <u>Federal Express</u>	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N Not Preserved
Account Code		3. Sampler (Name) <u>Bill Clarke</u>	Airbill Number 8330 8236 3760 <u>8330 8236 1975</u> <u>BC</u>		
Site Name <u>Omega Chemical</u>		3. Sampler Signature <u>Bill Clarke</u>	5. Ship To: <u>Clayton Environmental</u> <u>22345 Roethel Dr.</u> <u>Novi, MI 48375</u> <u>(248) 344-1770</u> ATTN: <u>Karen Connor</u>		
City, State <u>Whittier, CA</u>	Site Spill ID	Op Unit	3. Purpose** <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RT <input type="checkbox"/> SI <input type="checkbox"/> ESI Long-Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M		

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
<u>406R7</u>										<u>5-31-02</u>	<u>M40L56/7</u>		
406R9	<u>2</u>	<u>L</u>	<u>G</u>	<u>5</u>		<u>X</u>	<u>X</u>	<u>GW202-DW2-0078</u>	<u>52R02/1005</u>		<u>M40L46/7</u>	<u>GZ</u>	
<u>all</u>													

Shipment for Case Complete? <input checked="" type="checkbox"/> (Y/N)	Page <u>1</u> of <u>1</u>	VOA MS/MSD Required? <input checked="" type="checkbox"/> Y/N Sample #: <u>N/A</u>	Additional Sampler Signatures <u>Bill Clarke</u>	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? <input checked="" type="checkbox"/> Y/N Sample #:		
		Pest/PCB MS/MSD Required? <input checked="" type="checkbox"/> Y/N Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) <u>[Signature]</u>	Date / Time <u>5-31-02</u> <u>5:20:02 1600</u>	Received by: (Signature) <u>Federal Express</u>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No.
30499

1. Project Code		2. Region No. 9	Sampling Co. Weston	4. Date Shipped 5-31-02	Carrier Federal Express	6. Matrix (Enter in Column A) 1 Surface Water 2 Ground Water 3 Leachate 4 Field QC 5 Soil/Sediment 6 PE-water 7 PE-soil 8 Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved	
Account Code		3. Sampler (Name) Bill Clarke		Airbill Number 8341 3569 2818				
Site Name Omega Chemical		3. Sampler Signature Bill Clarke		5. Ship To: Clayton Environmental 22345 Roethel Dr. Novi, MI 48375 (248) 344-1701				
City, State Whittier, CA	Site Spill ID	Op Unit	3. Purpose** <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ		Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		Long-Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M	
ATTN: Karen Coonan								

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB						
40ARB	Z	L	G	5		X	X	AW202-006-0048		5-31-02/1130	MY0258/9	GTZ	
all													

Shipment for Case Complete? (Y/N)	Page 1 of 1	VOA MS/MSD Required? Y/N	Sample #: N/A	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N	Sample #:		
		Pest/PCB MS/MSD Required? Y/N	Sample #:		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature) Bill Clarke	Date / Time 5-31-02 1530	Received by: (Signature) Federal Express	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

405251



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Case No

30499

1 Project Code		2 Region No 9	Sampling Co Weston	4 Date Shipped 5-31-02	Carrier Federal Express	7 Matrix (Enter in Column A) 1 Surface Water 2 Ground Water 3 Leachate 4 Field QC 5 Soil/Sediment 6 PE-water 7 PE-soil 8 Other (specify in Column A)	7 Preservative (Enter in Column D) 1 HCl 2 HNO3 3 NaHSO4 4 H2SO4 5 Ice only 6 CH3OH 7 Other (specify in Column D) N Not Preserved
Account Code		3 Sampler (Name) Bill Clarke		Airbill Number 8341 3569 2807			
Site Name Omega Chemical		3 Sampler Signature Bill Clarke		5 Ship To Clayton Environmental 22345 Roethel Dr. Novi, MI, 48375 (248) 344-1770 ATTN Karen Connor			
City, State Whittier, CA	Site Spill ID	Op Unit		3 Purpose**			
				Early Action			
				Long Term Action			

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc Low Med	C Sample Type Comp / Grab	D Preservative (from Box 7) Other	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No	J Sampler Initials	K Field QC Qualifier
					TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21	TA (circle one) PR* 7 14 21						
Y0GR9	2	L	G	5		X	X	QWZ02-0W6-1048		5-31-02/1140	MY06 60/1	GC	D
all													

Shipment for Case Complete? (Y/N) 0	Page 1 of 1	VOA MS/MSD Required? Y/N Y	Sample # N/A	Additional Sampler Signatures Bill Clarke	Chain of Custody Seal Number(s)
		BNA MS/MSD Required? Y/N Y	Sample #		
		Pest/PCB MS/MSD Required? Y/N Y	Sample #		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by (Signature) Bill Clarke	Date / Time 5-31-02 1530	Received by (Signature) Federal Express	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Distribution Blue - Region Copy
White - Lab Copy for Return to SMO
Pink - SMO Copy
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

256



United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

Case No.
30499

1. Project Code	Account Code	2. Region No. 9	Sampling Co. Weston	4. Date Shipped 5-31-02	Carrier FedEx	6. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	7. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N Not preserved
Regional Information		3. Sampler (Name) Amanda K. Cohan		Airbill Number 8336 8601 1301			
Non-Superfund Program		3. Sampler Signature <i>[Signature]</i>		5. Ship To Sentinel Inc (SENTIN) 116 Washington St, NE Huntsville, AL 35801 (256) 534-9800 ATTN: Karen Mitchell			
Site Name Omega OU-02		3. Purpose*		Site Spill ID			
City, State Whittier, CA		<input type="checkbox"/> LEAD <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD					

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform Eval - = Not a QC Sample
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Fluoride	pH	Conduct						
MY0L54	2	L	G	2,3	X	X							GW202-OW3-0080	5-31-02/0845	Y0GR6	GE	---
MY0L55				2	X								" "	" "	" "	GE	---
MY0L56				2,3	X	X							GW202-OW2-0078	5-31-02/1005	Y0GR7	GE	---
MY0L57				2	X								" "	" "	" "	GE	---
MY0L58				2,3	X	X							GW202-OW6-0048	5-31-02/1130	Y0GR8	GE	---
MY0L59				2	X								" "	" "	" "	GE	---
MY0L60				2,3	X	X							GW202-OW6-1048	5-31-02/1140	Y0GR9	GE	D
MY0L61	↓	↓	↓	2	X								" "	" "	" "	GE	D
all																	

Shipment for Case Complete? (Y/N)	Page 1 of 1	Sample(s) to be Used for Laboratory QC None	Additional Sampler Signatures <i>Bill Clark</i>	Chain of Custody Seal Number(s)
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CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) <i>Bill Clark</i>	Date / Time 5-31-02 1530	Received by: (Signature) <i>Federal Express</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

A21.012.13 REV

CHAIN OF CUSTODY RECORD

PROJ. NO. R02546		PROJECT NAME Omega Chemical Corp.				NO. OF CONTAINERS	Perchlorate				Air bill # 8341 3569 2792	
SAMPLERS: (Signature) Gerardo Zuniga Merando Zuniga											REMARKS Case Event Complete	
DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION							
5-31-02	0845	H ₂ O		X	GW202-OW3-0080	1	X					
	1005				GW202-OW2-0078		X					
	1130				GW202-OW6-0048		X					
	1140				GW202-OW6-1048		X					
all												
Relinquished by: (Signature) Merando Zuniga			Date / Time 5-31-02 1530		Received by: (Signature) Federal Express			Relinquished by: (Signature)		Date / Time	Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time	Received by: (Signature)	
Received for Laboratory by: (Signature)			Date / Time		Temp.	Seals Intact (Y/N)		Condition / Remarks				

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

EMAX

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 9
75 Hawthorne Street
San Francisco, California 94105

PROJECT NO.		PROJECT NAME					NO. OF CONTAINERS	REMARKS
SAMPLES (Signatures)								
DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION			
5-31-02	0815	H ₂ O	X		GW202-OW3-0080	2	FedEx Airbill # 8336 8601 1518	
	1005				GW202-OW2-0078			
	1130				GW202-OW6-0048			
	1140				GW202-OW6-1048			
all								

ILL-DIAGRAM

Relinquished by: (Signature) <i>Morales Zuniga</i>	Date / Time 5-31-02 1530	Received by: (Signature) <i>Federal Express</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Received for Laboratory by: (Signature)	Date / Time	Temp.	Seals Intact (Y/N)	Condition / Remarks	

APPENDIX E
PURGE RECORDS

**GROUNDWATER MONITORING WELL
PURGING DATA**

Project Number: _____

Date: 5/16/02

General Information

Water-Level Meter: Solinst

Decontamination Process: 3 Stage

Water Quality Meter: _____

Sampling Equipment: _____

Purging Equipment: _____

Wells Sampled By: Amanda Cohen

Gerardo Zuriga

Well Purging Data for Monitoring Well: MW04A 5/21/02

Start Time	Volume (gal)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/l)	Temperature (°C)	ORP	Notes
1452	0.1	7.10	1610	Clear	3.59	23.0	393	Initial PID: 0.5 ppm 23.90' 23.89' 23.89' 23.89' 23.89' 23.89' 23.89' 23.89' 23.89' 23.89' 23.89'
1455	0.2	7.06	1631	Clear	3.40	23.6	401	
1458	0.3	7.05	1648	Clear	3.39	23.9	418	
1501	0.4	7.04	1649	Clear	3.36	24.1	424	
1504	0.5	7.03	1652	Clear	3.39	24.3	426	
1507	0.6	7.02	1652	Clear	3.40	24.5	438	
1510	0.7	7.03	1666	Clear	3.37	23.7	442	
1513	0.8	7.03	1666	Clear	3.39	24.4	439	
1517	0.9	7.03	1657	Clear	3.34	23.8	442	
1520	1.0	7.03	1662	Clear	3.25	23.6	446	
1523	1.1	7.03	1662	Clear	3.19	24.5	446	

Initial Depth to Water: 23.76'

Casing Diameter: _____

Total well depth: _____

Minimum Purge Volume: _____

**GROUNDWATER MONITORING WELL
PURGING DATA**

Project Number: _____

Date: 5/16/02

General Information

Water-Level Meter: _____
 Water Quality Meter: _____
 Purging Equipment: _____

Decontamination Process: _____
 Sampling Equipment: _____
 Wells Sampled By: CC, AKC

42

Initial
DTW = 23.71'

Well Purging Data for Monitoring Well: MW 0413

Start Time	Volume (gal)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/l)	Temperature (°C)	ORP	Notes
0822	1.0	7.15	1287	slightly turbid	2.56	21.5	207	Initial PID: 0.3 ppm DTW = 23.73' 23.70 23.71 23.70 23.70 23.71 23.71 23.70 23.70
0825	1.2	7.14	1287	clear	2.25	21.6	213	
0830	1.4	7.15	1291	clear	2.48	21.8	215	
0834	1.6	7.16	1289	"	2.46	22.1	218	
0837	1.7	7.13	1300	"	2.62	22.3	220	
0840	1.9	7.14	1295	"	2.40	22.4	220	
0843	2.2	7.14	1287	"	2.34	22.4	220	
0846	2.4	7.14	1287	"	2.38	22.3	220	
0849	2.7	7.14	1287	"	2.45	22.3	221	
0852	3.0	7.14	1285	"	2.51	22.4	221	
								end level 23.69

Initial Depth to Water: 2364' @ 1059
 Total well depth: _____

Casing Diameter: _____
 Minimum Purge Volume: _____

**GROUNDWATER MONITORING WELL
PURGING DATA**

Project Number: _____

Date: _____

General Information

Water-Level Meter: _____

Decontamination Process: _____

Water Quality Meter: _____

Sampling Equipment: _____

Purging Equipment: _____

Wells Sampled By: _____

Start Time	Volume (gal)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/l)	Temperature (°C)	ORP	Notes	
Initial depth 25.40		Well Purging Data for Monitoring Well: <u>MW04C</u>						Start pump 1045	
1048	0.3	7.22	1377	clear	2.79	24.4	183	Initial PID: 0.0ppm	
1051	0.5	7.21	1382	"	3.47	23.6	186	25.40	
1054	0.7	7.21	1383	"	3.67	23.4	192	25.41	
1057	1.0	7.20	1383	"	3.74	23.2	197	25.41	
1100	1.2	7.20	1377	"	3.54	23.2	202	25.41	
1103	1.5	7.20	1376	"	3.75	23.0	205	25.42	
1106	1.7	7.20	1375	"	3.96	23.0	207	25.42	
1109	2.0	7.20	1370	"	3.62	23.1	209	25.43	
1112	2.2	7.20	1368	"	3.62	23.0	210	25.43	
1115	2.4	7.20	1377	"	3.59	23.0	211	25.43	
1118	2.6	7.21	1375	"	3.67	23.1	212	25.43	
								Final DTW = 25.43'	
Initial Depth to Water: <u>25.32' @ 1100</u>		Casing Diameter: _____						Minimum Purge Volume: _____	
Total well depth: _____									

**GROUNDWATER MONITORING WELL
PURGING DATA**

Project Number: _____

Date: 5/23/02

General Information

Water-Level Meter: Solinst
 Water Quality Meter: _____
 Purging Equipment: _____

Decontamination Process: _____
 Sampling Equipment: _____
 Wells Sampled By: _____

Well Purging Data for Monitoring Well: MW 8A

Start Time	Volume (gal)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/l)	Temperature (°C)	ORP	Notes
1040	0.2	6.86	1871	clear	2.21	22.5	43	Initial AD: 1.3 ppm 27.31' 27.32' 27.31' 27.31' 27.31' 27.31' 27.31' 27.30' 27.31' 27.31' 27.31'
1043	0.4	6.84	1907	clear	1.86	22.6	51	
1046	0.6	6.84	1908	clear	1.71	22.6	55	
1049	0.8	6.84	1911	clear	1.70	22.6	53	
1052	1.0	6.84	1910	clear	1.71	22.2	55	
1055	1.2	6.84	1909	clear	1.69	22.6	57	
1058	1.4	6.84	1909	clear	1.68	22.6	60	
1101	1.6	6.84	1905	clear	1.67	22.2	61	
1104	1.8	6.84	1908	clear	1.71	22.2	63	
1107	2.0	6.84	1905	clear	1.77	22.3	65	
1110	2.2	6.84	1910	clear	1.76	22.3	67	
								End water level 27.31'

Initial Depth to Water: 27.17
 Total well depth: _____

Casing Diameter: _____
 Minimum Purge Volume: _____

**GROUNDWATER MONITORING WELL
PURGING DATA**

Project Number: _____

Date: 5/16/02

General Information

Water-Level Meter: _____
 Water Quality Meter: _____
 Purging Equipment: _____

Decontamination Process: _____
 Sampling Equipment: _____
 Wells Sampled By: _____

31.49 CHC

Initial DTW = ~~30.49~~? Well Purging Data for Monitoring Well: MW10A pump on @ 1313
 well tape not working well - reading not clear

Start Time	Volume (gal)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/l)	Temperature (°C)	ORP	Notes
1313	∅	—	—	—	—	—	—	Initial P10: 0.6ppm 30.78 30.75 30.65 30.67 30.65 30.65 30.65 30.68 30.65 30.65 30.65
1316	0.2	6.86	1880	clear	7.52	23.5	265	
1319	0.4	6.82	1893	"	7.32	23.6	281	
1322	0.6	6.90	1867	"	7.11	23.5	307	
1325	0.8	6.98	1848	"	7.17	23.4	312	
1328	1.0	7.10	1840	"	7.20	23.3	314	
1331	1.1	7.13	1835	"	7.25	23.4	314	
1334	1.4	7.31	1816	"	7.46	23.2	311	
1337	1.6	7.45	1818	"	7.44	23.1	308	
1340	2.0	7.53	1814	"	7.58	23.1	306	
1343	2.3	7.58	1812	"	7.56	23.0	305	end level 31.50

Initial Depth to Water: 31.38' ?
 Total well depth: _____

Casing Diameter: _____
 Minimum Purge Volume: _____

**GROUNDWATER MONITORING WELL
PURGING DATA**

Project Number: _____

Date: 5/16/02

General Information

Water-Level Meter: _____

Decontamination Process: _____

Water Quality Meter: _____

Sampling Equipment: _____

Purging Equipment: _____

Wells Sampled By: _____

Well Purging Data for Monitoring Well: <u>MW11A</u> Pump on 1330								Notes	
Start Time	Volume (gal)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/l)	Temperature (°C)	ORP		
1330	0	7.52	1986	clear	4.55	23.9	24.7	131	Initial level 34.50' Initial PID: 0.6 ppm
1333	0.2	7.06	2070	"	4.25	23.8	186	34.50	
1336	0.3	6.96	2080	"	2.91	23.3	194	34.50	
1339	0.5	6.96	2070	"	2.69	22.9	203	34.51	
1342	0.7	6.96	2070	"	2.99	22.9	205	34.51	
1345	1.0	6.96	2060	"	2.39	22.8	209	34.51	
1348	1.3	6.96	2060	"	2.39	22.8	211	34.51	
1351	2.0	6.97	2060	"	2.39	22.9	213	34.51	
1354	2.3	6.97	2060	"	2.39	22.9	213	34.51	
1357	2.6	6.97	2070	"	2.44	22.8	214	34.51	
1400	2.8	6.96	2060	"	2.36	22.8	215	34.51	
1403	3.0	6.97	2070	"	2.25	22.8	215	34.51	
									Final level 34.49' pump on 1425

Initial Depth to Water: 34.46' @ 1010
Total well depth: _____

Casing Diameter: _____
Minimum Purge Volume: _____

